

James THE *Hamilton*
Practice of Physick,
IN
Seventeen several Books.

Wherein is plainly set forth,
The *Nature, Cause, Differences*, and Several sorts of
Signs ; Together with the *Cure* of all Diseases in the Body.

By { *Nicholas Culpeper*, Physitian and Astrologer.
 Abdiab Cole, Doctor of Physick. And
 William Rowland, Physitian.

Being chiefly a Translation of
THE WORKS
OF THAT
Learned and Renowned Doctor,
LAZARUS RIVERIUS,
Sometimes
Councillor and Physitian to the KING of France.

To which are added
Four BOOKS containing Five hundred and thirteen
Observations of Famous Cures. By the same Author.

And a Fifth Book of Select Medicinal Counsels. By *John Fernelius*.

With a TABLE of the Principal Matters Treated of therein. As also a
Physical Dictionary, Explaining the hard Words used in these Books.

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Printed for *George Sawbridge*, at the Bible on *Ludgate-*
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Printed for George and John, the Booksellers in London.
MDCCLXXVII.

The Printer to the Reader.

READER,

THY Chearful Acceptance of my former Endeavours in this Kind for the good of my Native Country, hath encouraged me, though with great Care, Labour and Cost, to present thee with the Learned, Judicious, and Worthily Renowned Riverius his Practice of Physick. He was an Author lately living, and sufficiently known: And his Works will speak for themselves and praise him in the Gates.

And if thou shalt shew a Friendly Countenance to this Worthy Stranger, who now speaks English, I shall be thereby encouraged by all other Means to study to promote thy good, by bringing thee more acquainted with this, and other Excellent Authors.

And whereas some, either out of Envy, or Misunderstanding, do condemn Works of this Nature published in our Mother Tongue, alledging chiefly, That such Books encrease the number of Empericks; are a hinderance to Learned and Noble Physicians; also occasion some to hurt themselves by rashly practising on their own Bodies. I shall answer to these Objections in Order.

First, As for Empericks; These Books, and such as these published in English are so far from making more Empericks, that they will spoyle those that are, and make that we shall have fewer of them. For an Emperick being one that gives Physick (Hab Nab, as we use to say) relying only on Experience, and what he hath seen done before him, not being able to give any reason touching the Disease, its Cause or Cure; These Books will teach such persons how to go upon good grounds, and to be able to give a solid Reason for what they do; and of Empericks make them Rational Physicians, if they be Men of good Natural Parts, though they be ignorant of all Tongues but their Mothers.

As for the hurt which is hereby pretended to be done to Learned Physicians, it is a meer imagination, and no Learned Physician that bethinks himself well, will so judge. For the use of these Books respects chiefly the Poor of this Nation, together with Seafarers, and Souldiers. But for the Rich that have Money to spare, and bide at home, no otherwise (in point of Practice) than for an honest Curiosity and delightful Speculation. What Rich Man is there so mad, who reading a Chapter in these Books, and seeing what a world of Considerations and Cautions belong to the knowledg and orderly Cure of every Disease, but will be more fearful than ever he was before to commit himself to the Cure of any but a Learned Physician. Now it is not by the Poor, but by the Rich that the Learned Physician maintains himself; The Poor are but a trouble to him, onely before such Books as these were extant in the English Tongue, Conscience (sometime) forced the Learned Physician to take Care of the Poor, because the Unlearned were wholly unable: Whereas now there may be found Industrious Men that know no more Languages than their Native one, who may in a rational way contribute to the Necessities of the Poor. Nay, these kind of Books are profitable to the Learned Physicians, for many of the Gentry, especially of the Ladies and Gentlewomen, viewing the state of their own Bodies in such Books as these (as in Looking-Glasses), will perceive certain Diseases in themselves, either now in being, or likely, ere long, to seize upon them, which otherwise they would never have so much as dream'd of; and thereupon crave the Advice and Assistance of the Learned Physician.

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Also the Ladies and Gentlemen being well read in such Books as these, will better know how to demean themselves towards their Husbands, Children, or other Relations and Friends in their respective Sickness in point of ordering them, and will be more apprehensive of the Physicians Directions, and so better able to practise them; also more capable of his Reasons, and Prognosticks, and so more confident and cheerfully obedient. All which will very much advance the Cure, and consequently the Honour and Gain of the Learned Physician: for, as Hippocrates notes in his first Aphorisme, It is not enough towards the Cure that the Physician do what is fitting; but the By-standers and Friends of the Sick must play their part, or all will not be well.

And in the third place, whereas it is objected, That People reading these Books will practise upon themselves, and hurt themselves.

I Answer, If they do, they have none to blame but their own folly; for it is not the intent of the publishers of these Books, that every one that can read English, should dare to take of their own heads such Medicines as are described in the said Books. But our intent is, That where in the Country there is no Learned Physician at hand; at Sea, in the Kings and Merchants Ships, where the Chirurgion is compelled to act both his own, and the Physician's part; In Armies and Leaguers, &c. An ingenious and diligent Chirurgion, Apothecary, or any other that hath from his Youth been exercised in these kind of Studies, and conversant about the Sick, may attain such a competent knowledge in the Causes and Methodical Cure of Diseases, as they may with honour to themselves, and profit to the Sick (by God's blessing) supply the place of a more Learned Physician. For the use of such persons these Books are intended, and for diligent Midwives; and not that every Fool should turn Physician, or that every Reader should tamper with him or her self.

Also divers Honourable Ladies and Gentlemen, that out of a truly Christian and Charitable Disposition have not disdained, but counted it a great honour to be helpful to the Poor in the time of their Sickness, may by perusal of these Books, and the like, confirm and encrease their Knowledge, and become honourable Instruments in the hand of God, of much Relief and Comfort to many poor distressed Creatures in their respective Countries and places of Habitation. For the worthy sakes of which Honourable Ladies and Gentlemen in the first and chiefest place, and for the ease of all others unacquainted with the Greek and Latin Tongues, and consequently unable to understand divers Terms of Art, and other words drawn from the said Tongues (which it is necessary to retain for brevity sake, and to avoid tedious Circumlocutions) I have caused a Physical Dictionary to be added at the end of these Books, explaining all such Terms of Art aforesaid, as are used therein.

When the Reader meets in these Books, with the Names of Simple or Compound Medicaments, and desires a more full Knowledge of them, let him have recourse to the London Dispensatory in English, where he may be satisfied; for it had been an endless and vain work, to repeat what hath been said. If there occur accidentally the name of any Disease which the Reader would better understand, let him look into the Table of the Contents of the Chapters of these Seventeen Books, and he shall find the said Disease described and explained.

Also the Reader may please to take notice, That many hard Phrases in these Seventeen Books are explained in the Context, by more easie words following, which signifie the same with the foregoing hard word.

As for Example, MASTICATORIES, or Chewing Medicines, giving the Reader to understand, That Masticatories, is as much as to say, Medicines that are only chewed in the Mouth to bring away Rheum by spitting.

The Printer to the Reader.

So GARGARISMS, *that is*, Medicines to Gargle in the Throat: A PLETHORICK, or Full Body; EMPYEMA, or Corrupt matter gathered between the Chest and Lungs; HYPOCHONDRIA, or Parts under the short Ribs; A VESICATORY, or Plaister to draw Blisters. Many such passages there are throughout these Books, where the later Clause is an Exposition of the former.

And that thou mayst know to whose great Industry and Pains thou art obliged for the Englishing this most Excellent Piece of Art, know, That it hath been three times Translated by Nicholas Culpepper, Physician and Astrologer; Abdiah Cole, Doctor in Physick, who hath practised Physick Twenty nine Years in the Service of Three of the Greatest Princes in Europe: And William Rowland, a Knowing Physician; And also by an Eminently Learned and Pious Physician, who desires not to be named; being (as he sayes) content with the Applause of his own Conscience: A Work that tends to profit many Millions, not only of this Generation, but of all that shall follow, till the World become one great Bone-fire; or this Nation and Language perish together. And it hath been (he sayes) a long time his Opinion, That it is more Rational, Manly, Generous and Christian, whilst God shall please to afford him Food and Rayment, to imploy his Time and Pains in Actions largely conducing to the good of Mankind, though little advancing his own Fortunes, than in matters of petty and poor Concernment, that bring great Gain with them; In which Generous Resolution, God (the Author of it) will, he hopes, preserve him to his dying day; at which time the fruit and profit of his Labours will comfort him, but all the Gain in the World will do him no good at all.

Use our Labours with Diligence, Care, Ingenuity, Compassion towards the Sick, and in the fear of God. Attribute the Success and Honour of all thy Endeavours to him; Bless him for the light he discovers to this Generation, denied to so many Millions of our Ancestors. Bless him for the Piety and Noble Generosity of our Gracious Sovereign, that gives us leave to Be as Good as we Will, and to Do all the Good we Can (though seeming to cross private Interest) Oh! What a Royal and Free Priviledge is this, and how are we obliged to bless God and the King for it!

Finally, Pray for those that have taken pains in the Work; and as thou enjoyest the Benefit thereof, so let them participate of thy best Thanks and Well-Wishes.

The

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THE Author to the Reader.

Five and twenty Years ago [*Reader*] to Satisfie the Desires of my Auditors, I undertook to Explain unto them the Methodical Cure of all inward Diseases of the Body; which that I might accomplish the sooner, I medled not at all, in a manner, with the Theory, knowing full well, that any Student might with ease enough fetch the same from divers Authors: which notwithstanding they could not so easily do in point of Practice, because of the almost infinite Company and Variety of Medicaments, wherewith the Books of those that have delivered the Practical part of Physick do swarm, with which Young Beginners are so confounded, that they remain amazed, not knowing which to choose. I conceived it would be most profitable for them, if out of such a multitude of Medicaments, I should select the most choice, and which were most frequently used, and dispose them into the same order which we are wont to observe in our Practice, when we attend the Cure of our Sick Patients.

This Method of teaching, gave such Content to our Students of Physick, that as many as came flocking to this University to Study, after that I had finished the same, did all earnestly desire to have written Copies thereof; and many of them did frequently exhort me, and earnestly Beg, that I would suffer it to be Printed; and so for the future free all Men from the tedious Labour of writing it out. But I, who never had the thought (being very free from Self-Love) that my Writings were of so much worth, as to be published in Print, especially this Method of Practice, which was slipt from me as a thing only begun with rude Notes, hastily huddled up to perform my daily Task of Reading, and half maimed for want of the Theorick part; I thought it better to believe my own Conscience, than their too favourable Opinion. I pondered likewise in my Mind, that it was a very hazardous thing, to subject my Reputation to the Judgment of the whole World, and (as it commonly falls out) to the biting Teeth of envious Detractors, especially in this Polished Age, abounding with neat and passing fine Wits; who are hardly pleased with such Works as have been wrought with the greatest Industry possible, and who are wont to peep curiously to spy spots in the shining Sun. Nevertheless this unperfect Birth of mine, which I desired to keep close and hidden, was sent into the wide World by one of my Scholars, who ~~without my knowledge, and against my will, gave that imperfect, homely and unpolished Work to a Printer of Paris to print.~~ And this Child of mine which I did account abortive, was more pleasing, and found greater favour in the Eyes of Strangers than in its Fathers; for all the Books of this First Edition were suddenly sold off. A Second Edition, and a little after a Third, was procured by

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by the same Printer, by which all *Europe* was filled with Copies. Nevertheless, some years after there came out Three other Editions within two years time, one at *Lions*, and two other in *Holland*, viz. at *Tergon* and the *Hague*. In the mean while, I received very many Letters out of the chief Cities of *France*, *Germany*, *Holland*, and *Italy*, from Doctors of Physick whom I was acquainted with, when they studied Physick in this University; seriously expostulating that this Work was lame because it wanted the Theory of the Diseases, and withal advising me, that it would be worth my pains to spend some part of my Studies that way. Conceiving at length that it was fitting to consent unto their Just Requests, I laboured with all my might, as far as my Employments and Health would give me leave, to finish and publish this Theoretick Part; in-somuch, that at last (Blessed and Praised be God) I brought the same to a Conclusion. Accept it (Friendly Reader) with a Chearful Mind, being joyned to the foresaid Practick Part, so that in one continued Discourse thou mayest behold the *Nature*, *Differences*, *Causes*, *Diagnosticks*, and *Prognostick Signs*, together with the *Cure of all Diseases*.

I suppose this Child of mine will merit highly thy Favour, being now adorned in all parts, and advanced to a far greater degree of Perfection; and seeing that thou wert pleased with it in its Cradle and Swadling Clouts; now that it is greater, and hath attained its perfect Stature of Body, it will not, I hope, displease thee. Enjoy it with Gods Blessing, and whatever thou shalt learn therefrom, let Christian Charity cause thee to employ it for the good of thy Neighbour. Also I desire thee to take notice, that many faults were crept into the former Editions through the negligence of Printers, all which are carefully Corrected in this Edition. And furthermore, there are added many and those very Choice Medicaments to the Cures formerly Printed, which will not a little conduce to the happy Cure of Difficult Diseases. Farewell.

The



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2. A Translation of the *New Dispensatory* made by the Colledge of Physitians of London.

3. A *Directory for Midwives*, or, A *Guide for Women*, in Two Parts, newly Enlarged, and Illustrated with divers Plates. All being Works of *Nich. Culpeper*.

4. *Oriatrike*, or *Physick Refined*; The common Errors therein refuted, and the whole Art reformed, and rectified. Written by the Acute Philosopher, and Profound Physitian, *John Baptista Van Helmont*.

5. *Riolanus's Anatomy*.

6. *Veslingus Anatomy of the Body of Man*.

7. *Bartholinus's Anatomy*.

8. *Riverius's Practice of Physick*, and Observations.

9. *The Hidden Treasures of the Art of Physick*, fully discovered in Four Books. A Work whereby the diligent Reader may attain to the knowledg of the Art above named: The Fourth Edition, with Additions. By *John Tanner*, Student in Physick and Astrology.

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THE
FIRST BOOK
OF THE
PRACTICE
OF
PHYSICK.

Of the Diseases of the Head.

The Preface

IN this our Treatise of Head Diseases, we speak first only of those which are in the Substance of the Brain, and the Films which contain it. For although the Eyes, Ears, Tongue, Teeth, Gums, Fawes, and Palate go to the making up the Head; yet we think it fit to speak of their Disease in several Books for better Method sake; And to call the Diseases of the Brain and its Meninges or Films, by the name of Head-Diseases, most properly so from the Excellency of the parts wherein they are, These come from the hinderance of the Action of the Brain, either in respect of Sense, Motion, or Nutrition.

The sense is divided into Internal, and External; The Internal hath the cheif Actions, as Imagination, Reasoning, Memory; as also Sleep and Waking; the Diseases of which are Frenzie, Madness, Melancholy, Catoche, Coma waking sleep, and Coma long sleep, Lethargy, Carus, Apoplexy.

The External Sences are five, namely, Sight, Hearing, Smelling, Tast, and Feeling.

But because the first four have their peculiar Organs or parts, which have divers Diseases which we shall treat of in several Books: We will in this Book lay down and declare those which belong to the Sense of Feeling, because they come immediately from the Brain and its membranes or Films disturbed, and are either termed Palsies, which come from Sense destroyed or diminished; or Head-Aches which come from sense depraved.

When the actions of the Brain are hindered in respect of motion, there ariseth Convulsion, Falling-Sickness, Palsie, Apoplexy, Giddiness, or swimming of the Head, called Vertigo, and Trembling. Finally, when the acting or working of the Brain is hurt or hindered in its Nutrition, or Nourishment, the Disease is either in distemperature, or disorder of the excrement of the Brain, of which cometh a Catarrh, Defluxion or Distillation.

We shall bring all these Diseases under their proper Heads and Chapters in that order which is most usual for the way of Cure. Therefore we shall first declare the Cold Distemperature of the Brain, and then all Diseases that come from thence, because the ground of their Cure is in the Cure of that. Afterwards we shall lay down the Diseases that come from a Hot Distemper, and hot Humors; which will all more clearly appear in their severall Chapters.

CHAP. I.

Of the Cold Distemper of the Brain.

ALl Distempers are usually divided into Simple, and Compound; Material, and Immaterial. Simple or single distempers are seldom seen; as also immaterial distempers, for they come from Primary Causes, and either vanish of their own accord, or with very small Remedies or Medicines: But Material Distempers produce all the diseases of the Head; therefore we will fall close to discourse of them; which few Authors have done in handling them severally, because in the laying down of the Diseases which are produced of those distempers, they are sufficiently explained. We therefore will transfer the handling of the hot distempers of the Brain, and also the moist and dry distempers, to the Chapters which contain those diseases which are produced from them. But because the greatest number of Diseases of the Head come from a cold and moist distemper of the Brain, we thought fit to discourse of that by it self in the beginning of this Treatise; that the cure of that may be as the Foundation of the Cure of all Diseases coming from thence, and that the Medicines may be found in this Chapter which appertain to the Cure of their cause: Therefore we will avoid the vain repetition of those diseases, which is the Custom of almost all Writers of practical Physick, who by that means enlarge their Volumes, and make the Art more difficult and tedious to young Beginners.

The cold distemper of the Brain which is compound and Material, or joyned with Matter, is for the most part waterish and moist; because the Brain is that mother of moisture or Flegm, and Cold-hells long abiding draws moisture to it self. For albeit sometimes it is joyned with a melancholy humor, yet that humor is seldom begot in the Brain as Flegm is, but it is for the most part lodged in the *Hypochondria*, or parts beneath the Ribs, and sent from thence to the Brain, whereby most greivous Symptoms are produced.

CAUSES. The Causes of a cold and Flegmatick distemper of the Brain are these:

1. Cold and moist meats which easily turn into Flegm; and also in the time of their Concoction, by cooling the Stomach and the Liver too much, produce abundance of Flegm, which after is sent up to the Brain.
2. Too great a quantity, not only of Meats which are too cold, but also of good and whollome, which destroyeth the Natural heat, and begetteth Crudities.
3. Eating presently after or before meat, and before the former meat is concocted; whence come many Crudities, which send Flegm to the Head.

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4. The ceasing of a Natural custom of vomiting, or purging Flegm ; or the omitting the custom of taking Purges, Sweats, Diureticks, or Provokers of Urine, or omitting of accustomed Exercise.
5. To be born of Parents troubled with a cold distemper of the Brain.
6. Old Age, which by reason of the decay of Natural heat, produceth much Flegm ; as also youth by reason of Gluttony and disorderly Diet.
7. A cold and moist dwelling near standing Pools, Marshes, Fens, and great Rivers, open to the North Winds, Snow and Rain.
8. Long and deep sleep, especially presently after meat.
9. A sedentary idle life, without or with too much Care, Study, or Sorrow, because by dispersing the Natural heat, especially in the Brain, they make it cold.
10. To these may be added a hot and moist Liver, which sends many Vapors to the Brain, which there condense or grow thick, and turn into Flegm.

SIGNS. The Signs of a cold distemper of the Brain, are taken either from the Causes above mention'd, by the presence of which we may easily conjecture of the condition of the distemper; or they are taken from the effects of the distemper; which that they may be particularly examined and tried, we shall fetch from their original, namely, from Actions, Passions, Excrements and habit of Body.

1. The Animal Actions which declare a cold distemper of the brain are these ; A heavy and dull Mind, a slow blockish wit, an unfortunate Memory, a great inclination to sleep, and long and deep continuance therein, except a Catarrh or Defluxion, pain of the head, or Passions of the mind do hinder it : Dreames of Coldness, of waters, as Rain, Snow, Floods, Pools, Seas, and of white things : A slowness and dulness of all the Senses ; Slowness of motion, yet continuance therein : because great Spirits are more difficult to be diffused or dissolved.

2. The Passions, which declare a cold distemper of the Brain, are cold Diseases, as Palsies, Legarthy Catarrh, or Defluxion, and many others, with which if the sick party have been formerly troubled, may well conjecture that he is subject to this distemper of a cold Brain. This will further appear, if the sick man be better in clear, hot and dry weather, than in cold, moist winter, and rainy weather. Moreover, an often and plentiful sending forth of snot and flegm from the mouth and nostrils, is a clear demonstration of abundance of cold flegm and moisture in the Brain.

3. From the Habit of the Body we may have signs both general and particular of this Distemper: The general Signs are taken from the whole Habit or Constitution ; for if the whole Constitution be cold and moist, then without question the Brain, which is most cold and moist of all other parts, is the same. Therefore a skin which is cold, soft, smooth, and white; a body soft and slow, not fleshy, with small veins, declare a cold constitution or temper. The particular signs of a cold Brain are in the head ; as paleness of Face, no veins to be seen in the Eyes, soft hair, smooth and thin, growing slowly, red, and not curling, continuing the whole life without baldness; and when the head is quickly offended with outward Cold, and refreshed with Heat.

PROGNOSTICK. As to the prognosis, or Prognostical part concerning this Distemper; It is hard to be cured, and often produceth grievous diseases: That which hath been long breeding is most hard to be cured; that which is Natural, Hereditary, and from the Birth, is never to be cured: as also that which is in old Folks, if it hath been of long Continuance. Winter is not a fit time for the Cure of this Distemper, but Summer.

CURE. The cure is wrought from two Indications or Intentions; namely, by evacuating or discharging the flegm abounding, and correcting or qualifying the distemper of the humor by its contraries, which must be done by Diet, Chirurgery and Physick.

DIET. The Diet must be hot and dry; and first make choice of a pure Air, somewhat hot and dry, but not too hot, for that would dissolve and pour forth the humors in the Head too soon, and so produce a distillation, and other diseases which happen to those who stay long in the Sun, or inflame their heads with too neer approach to the fire. The Air cannot be too dry, so it be temperate in its active qualities, but it had better be too hot than too cold.

Let not the Chamber of the sick party be too little, too low, nor too moist or filthy, but open to dry winds which may pass through. In moist, cloudy, cold times, the Chamber air may be altered with hot and sweet Herbs strewed upon the Floor; as Sage, Marjoram, Lavender, Rosemary, tyme; or by burning the same, or other dry woods, and especially Juniper : Let the fire be clear, and such as will dry the Air in the Chamber, Fumigations if they be not too strong, do well to consume moisture; but they must be carefully used, they must be very gentle and moderate, otherwise they do hurt by melting and pouring forth the cold Humors too speedily, which cause Defluxions, and also you must consider the Patients Constitution in the use of them, for some men are presently brought to the Head-ach by any strong scent, having their heads presently filled with the vapor: A temperate and proper Fumigation is made of the purest Amber, putting little pieces thereof upon the Coals ; it's

no way offensive, dries well, and strengthens the Brain, especially the Indian Amber, called *Gum Animi*: Or you may prescribe this following, which is thus compounded;

Take *Wood-Aloes* and *Benjamin*, of each two drams; of *Storax*, called *Styrax Calamita*, one dram and a half; *Frankincense* and *Sanderach*, of each two scruples; *Gum Animi* and *Cloves*, of each half a dram. Make a gross Powder of them to be thrown upon the Embers.

Southerly winds, and those that cause Rain are to be avoided, night-air, and especially Moon-shine, which much offend the Brain: very cold and north Winds are to be beware of, especially when they suddenly are changed from the South; for such a wind doth squeeze a Brain full of moist excrements, and sends them down into the Body, even as a mans hand squeezeth a wet sponge.

Secondly, A special care is to be had of Diet, for as *Hypocrates* saith in his Book of *Humane Nature*, Diseases are partly from Diet, and partly from the Air wherein we breathe. Therefore let the Diet be of good juyce, easie concoction, neither cold, nor over nourishing: Therefore Mutton, Kid, Veal, are to be used, and which are better, young Pidgeons, Chickens, Capons, Hens, Partridges, Black-birds, Thrushes, and all kind of mountain Fowl, and yelks of new laid Eggs; roast meats are better than boyled, Take heed of hard flesh, and of hard concoction, as Beef, Pork, Venison, Hares, Geese, Ducks, and Sea Fowl: as also of the heads, entrails, and appurtenances of Beasts. Eat Fish but seldom, and make choice of those that have solid Flesh, coming out of swift Rivers, and stony places; boil them in Wine, adding Vinegar, Butter and Spice, which Sawce is to be allowed with other meat, unless the Liver be hot; of which principally use Nutmeg, Cloves, Cinnamon: never or seldom eat cold and moist Herbs, as Lettuce, Purslain, Spinage: but in Summer time we can allow a moderate use of Herbs which are gently cooling and drying, for the strengthening of the Body, and fixing the Blood, that it may not evaporate, as Endive, Succory, Sorrel, but they must be taken boyled, not raw. Roots of Parsly, Carrots, Parsnips, Mints, Hyssop. Water-creffes are very good. But you must avoid all things that easily disturb the head, and fill it with vapors; and they are of two sorts: Either they are such as discomb and melt the humors with their sharpness, as Onions, Garlick, Mustard, Rocket, Rhadishes: or such as fill the Head with gross vapors, as milk, and all milk-meats: all manner of Pulse, as Beans, Pease, &c. of which the red Pease are the least hurtfull, by reason of their opening and absterfive nature; therefore the broth of them is allowed. You must avoid all green raw Fruit, which are not lasting especially, and those which are very moist: dried Fruits may be used at second or last courses, as Raisins, Almonds, Pine-nuts, Dates, and the like; but you must use them sparingly, for they are for the most part hard of concoction. Pears boyled and Sugared, Citron Rinds Candied, Limmon and Orange Pils Candied, may be eaten at the last course: but it is much better to take one spoonfull of digestive Powder after meat, whose Aromatical sweet vapour ascending with the vapor of what is eaten doth strengthen and dry the Brain. It is made of Coriander Fruit, Annis seeds, Cinamon, Nutmeg, with a double quantity of Sugar of roses. Let your Bread be of the best Wheat well baked and leavened, and made with Salt and Annis seeds: In a great distemper Bisket is best. Let your drink be thin wine of small strength which will not fill the Head with many vapors, well mixed with water; and also it is Profitable one hour before meat to mix wine and water that the vapors may be allayed, and to boyl a little Coriander seed in the water, that it may better strengthen both Stomach and Brain: In stronger Diseases use Hydromel, or water and Honey. This is a good Rule in all Diet, to eat moderately, and to let the supper be less and lighter than the Dinner. Sobriety as in all diseases, so especially in head-diseases is of great concernment; for the Head by much food is filled with humors and vapors: and contrarily, by little and slender Diet is emptied of them.

Thirdly, You must use moderate Exercise, and every day continue it, for too much rest weakens the Natural heat, and makes it so dull that it cannot well concoct, and fills the body full of Excrements. On the other side, Motion and Exercise stir up the Natural heat, help concoction, expel Excrements, and cheer the Spirits, and purifie them; but you must exercise before meat, and after meat rest for an hour or two, or at least move very easily.

Fourthly, Use a mean in sleep and waking; for as with moderate sleep the strength is repaired, so with too long the body is made cold, burdened with excrements, especially the brain: but too much watching makes the body thin, spends the Spirits, and feeds upon the sound parts of the Body. Let not therefore sleep be too long, but according to custom commonly seven hours are allowed, but more or lesse may be taken according as age and custom shall require; if you offend in either extreme, it is better to offend in too much waking than in too much sleep. You must not sleep straight after meat, but two hours after at least, having taken a gentle walk. You must sleep with your head high, and upon one side: lying on the back is not allowed.

Fifthly, All the Excrements of the body are to be evacuated in their season, of the Brain especially; therefore every morning hawk from the Palate, blow the Nose, comb and rub the head with a course cloth or sponge, which will fetch the superfluities of the Brain through the sutures or seams of the Skull.

Skull. The Belly must be kept open; and if it will not otherwise, use a Suppository, or a Clyster, or some gentle Lenitive at the mouth. For the Excrements are not only taken away by so doing, but also by degrees something is fetcht from the Brain, or at least something is retained and driven thereby from the head, which was or would have been sent thither as to the weakest part.

Lastly, You must have special care of the passions of the mind, from which Bodies are many times wonderfully altered and disturbed, especially of Anger and Sorrow: Sorrow diminisheth the Natural heat, wounds the Spirits, whence comes small concoction, and many excrements. Anger makes a great boiling of the Blood, and motion of the Spirits, by which the humors are diffused and dissolved, and then if there be any Excrements in the Brain, presently they are sent to the weak and infirm parts, from whence arise many dangerous Diseases.

The other two Means for cure, namely, Chirurgery and Physick, may be used as followeth.

In almost all Diseases which come of the humors, we use to make a general Evacuation by Blood-letting and Purging.

Blood letting is not agreeable with Flegmatick Diseases; but if in other parts of the Body blood do abound, the Liver be inflamed, and the age of the patient be flourishing, and consistent with it, we may then let blood: for so will the ascension of vapors into the head be hindered, and superfluous Nourishment taken away, that Nature afterwards may more easily concoct what is raw and waterish in the blood; and then Purging Medicines may be given more safe.

But if *Plethora*, or too great repletion do not Constrain, it is better before blood-letting to give a purge for Flegm by way of Potion, Bolus, Pills, or Powder. The forms whereof are as followeth:

Take of *Senna* half an ounce; *Annis seeds* and *Cloves*, of each half a dram; *Leaves of Mints* and *Betony*, of each half a handful; of the tops of *Time*, half a pugil. Boyl them to a quarter of a pint in *spring Water*, strain it, and infuse in it two scruples of the best *Agarick Trochiscated*; of *Cinamon* half a scruple; strain it again, and dissolve in it three drams of *Diaphœnicon*, and one ounce of *Syrup of Roses*. Let this be the Potion to be given with safe Government. Or,

Take *Diacatholicon*, *Diaphœnicon*, of each half an ounce; make it into a Bolus with a little Sugar. You may add two drams of *Diacarthamum*, and take away as much of the *Diaphœnicon*: Or you may make it of equal parts of *Diacarthamum* and *Diaphœnicon*, without the *Diacatholicon*. Or,

Take Pill. *Cochie the lesse* two scruples; with the water of *Betony*, make them into five or six Pills gilded; which let him take early in the morning, having eaten but a light supper over-night.

The Pills of *Agarick*, and of *Cochie the greater*, are very fit for this purpose. For a Powder,

Take *Senna*, *Turbith*, *Hermadaets*, of each a scruple; *Diagridium* half a scruple, one Clove. Give this Powder in Broth fasting.

After Blood-letting, if it be necessary, we come to the preparation and purging of the Humors, which may be done with the following Apozeme, or opening Drink.

Take the Roots of *Cyprus*, *Flowerdeluce*, *Angelica*, *Zedoary*, and of *Elecampane*, of each one ounce; the Leaves of *Betony*, *Marjerom*, *Balm*, *Pennyroyal*, *Organ*, *Calamint*, of each a handful; of the tops of *Time* and *Sage*, of each half a handful; *Annis-seeds*, *Seselis* or broad *Cummin*, *Fennel-seeds*, of each three drams; *Liquoris* scraped, and *Raisins stoned*, of each one ounce; the Leaves of *Senna* sprinkled with *Aqua-vitæ*, two ounces; *Carthamus seeds* bruised, and fresh *Polypody* of the Oak, of each one ounce; *Agarick trochiscated*, *Turbith*, *Hermadaets*, of each three drams; *Ginger* and *Cloves*, of each one dram; *Stæchas*, *Rosemary*, *Sage*, and *Lavender flowers*, of each one pugil or small handful: Boyl them in fair water to two pints; strain it and add four ounces of white Sugar. Clarifie it, and aromatize it, that is, make it sweet with two drams of *Cinamon*. Let this be for four mornings draughts.

In the first and last draught dissolve *Diacarthamum* or *Diaphœnicon* three drams; and let him drink it with Physical Regiment.

Or if you add no Electutry to the last dose, the day following you may give the purging Pills above mentioned.

After Purging that the Brain may be altered and strengthened, and the Medicines purging not leave any offence, the Patient may take this Bolus following.

Take of old Treacle one dram; Conserve of *Rosemary* and *Roses*, of each two scruples; with Sugar make a Bolus, which let him take in the morning two hours before meat, and drink after a small draught of small Wine.

But because this is a stubborn Disease, and will not alwayes yield to gentle Medicines, we must fly to stronger. And then after purging, we must use a sweating Diet, which dryes and warms the Brain and the whole Body, concocts crude and raw humors, and makes the thick humors thin, cuts those which are slimy and clammy, cleanseth those that are foul and dull, and sends forth whatsoever is over moist

moist by Urine, Sweat, or insensible transpiration. For the effects of all which it is very good to use a slender Diet at the time of taking it.

This Diet-drink may be made either of a Decoction of Guajacum, or Lignum vitæ only, or by putting to it some Saxatras, or Roots of Sarsaparilla, or those things which are most proper for the Head, as the Prudent Physician shall think fit that will consider the divers tempers and constitutions of Bodies; in respect of which we will prescribe a longer or shorter continuance of his Diet to fifteen, twenty or thirty dayes.

Now the Sweating Drink is made as followeth:

Take of Chips Guajacum, and Roots of Sarsaparilla, of each two ounces, infuse them twenty four hours in four pints of Water upon warm embers; then boyl them gently without smoak to the consumption of half; strain it through a Hippocras bag, and keep it in a glass bottle: and give halfe a pint warm in the morning, covering him warm, and provoking sweat.

Take of Sarsaparilla two ounces, infuse them twelve hours in twelve pints of Spring water; then boyl them as before to the consumption of the fourth part; strain it as before, adding Coriander seeds, Liquors, Sugar or Cinnamon, as much as will make it pleasant. Use this for ordinary Table Drink at the time of the Diet eating Bisket made with Annis-seeds, roast meat, not boyled, Almonds roasted, Raisins, Pine-nuts, Prunes boyled with Sugar, and the like.

This is alwayes to be observed in the use of Sudorifick or Sweating Medicines: you must give a Purge once a week, and that day omit Sweating, by reason that Sweating expels only the thinner matter, leaving the thick, which must be sent forth by stool. Moreover, because by the use of Sweating Medicines the Body is often bound, you must give a Clyster every third or fourth day.

If the Disease be not yet cured, you may use these bags for the head in the time of Sweat.

Take of Annis-seeds, Fennel-seeds, Bayberries powdered, of each three ounces; of Milium, or Millet seed, or Hyrle, one pound; of common salt half a pound. Fry them in a pan, pouring by degrees a little strong Wine upon them. With these fill two bags, apply them hot one after another to the mold of the head being shaven; do this presently after he hath taken the sweating potion. Then wipe off the sweat, and clap this strengthening Plaister to the Head.

Take of cleer Amber, Frankincense, Mastick, of each one dram and an half; Galbanum, Opopanax, of each one scruple; of Misselto of the Oake two drams; male Peony seeds half a dram, Oyl of Nutmegs as much as is sufficient: make a plaister of them in an oval form. Or you may use the Head strengthening Plaister in the Apothecaries Shops at Montpelior, not in the Dispensatory, whose description followeth;

Take of Storax, Benjamin, Laudanum, of each four ounces; Peony roots, Flowerdeluce roots, Misselto of the Oak, Mastick, of each one ounce; Liquid Styrax as much as is sufficient to make a Plaister: of which one ounce upon Leather in an oval form may be applied to the Coronal Suture.

If you desire a more drawing dissolving Plaister, which is commonly called Epispastick, thus you must make it;

Take of Emplaister de Mucilaginibus two ounces; Flowerdeluce roots, Hermodacts, Pellitory of Spain, Staphesagre, Cubebs, Pidgeons dung, Mustard-seed, of each one ounce; Nutmeg, Cloves, Cinnamon, long Pepper, and black Pepper, of each halfe a scruple; Liquid Styrax as much as is sufficient. Make a body of Plaister, and spread a little upon Leather in an oval form for the mold of the head.

After general Evacuations, you may come to particulars; which are made by Errhines or Jucye for the nostrils, sneefing powders, Apoplegmatisms, or Medicines chewed in the mouth.

Take Leaves of Marjerom, Sage, and Betony, of each one handfull; beat them in a Marble stone Morter, sprinkling by degrees Betony water and white Wine, of each 2 ounces, press out the Jucye and make an Errhine, which you may make sharper if you add half an ounce of Flowerdeluce roots.

It is a custom now adaies to rub the dry leaves of Tobacco between the fingers, and to snuff up the powder: this fetcheth much humor from the brain, and is at hand.

But the best Sternutories are made thus;

Take the Leaves of Marjerom, Sage, Rosemary, all dried, of each half a dram; Pellitory of Spain and white Hellebore, of each one scruple; Musk three grains, which with a quill may be blown into the Nostrils. Or,

Take Ginger, and Flowerdeluce Roots, or Orris, of each one scruple; Castor half a scruple; Euphorbium six grains: Make them into a Powder.

But the chiefeft sneefing Powder is made of black Hellebore, with an equal weight of Sugar Candy fine powdered, which also is excellent for curing a Defluxion.

Apophlegmatisms, or medicines drawing Flegm out of the Head, are either called Masticatories, that is, chewing Medicines; or Gargarisms, that is, Medicines to gargle in the Throat. A Masticatorie is thus prepared;

Take Pellitory of Spain two drams; Mustard seed and Staphesagre, of each one dram: Make them

them up with white wax into little Balls; of which let one be chewed every morning, holding down the head.

Flower-de-luce root is usual for the same purpose, which will do good in small infirmities. Mastich alone chewed is the mildest Masticatory, and attracts and draws humors to the mouth without heat and inflammation, which others do not.

A Gargarism is thus made;

Take of Stavisagre half an ounce, Mustard-seed three drams; Pellitory of Spain one dram; Boyl them in Water and Honey to three ounces, in which dissolve Vinegar or Squills two ounces.

In the use of these Medicines we must observe, That the Evacuation which is made by the Palate, is more beneficial than that which is made from other parts, because it is ordained by Nature for the only way by which the head is to be purged and cleansed. But the Nose is made for smelling and breathing through, and Nature doth oppress and abuse it, when she sends forth her superfluous Excrements by it. Moreover, the way of Evacuation by the Palate is more safe, neither is the Brain so much shaken by it as by sneezing. But Errhine, or Medicines that purge the Head by the Nose, do draw forth the matter more violently, because not only the quality or vapor of the Medicine stir up the Brain as in Gargarisms, but also the very substance it self.

We must also observe, That the use of Errhines or neezings is dangerous when the Eyes are sore or the Nostrils are ulcerated or sore, and when the Patient is inclined to bleeding at the Nose, or to a giddiness of the head, which neezing will suddenly bring by shaking the Brain too violently,

Liquid and moist Errhines are snuff into the Nose from the palm of the hand, or by lying down are poured in; but the mouth must first be filled with Water or Wine, lest the Medicine come by the Palate into the mouth, although that which passeth through brings the humors more forcible out of the mouth.

They must take heed of Gargarisms that are subject to Defluxions or Consumptions.

Moreover, For particular Evacuations we may use Vesicatories, or plaisters that draw blisters, to the Nape of the Neck. In the Dispensatory of Montpelier is this Receipt, though it be not in any other:

Take of Galbanum and Ammoniacum, of each five ounces; of the powder of Cantharides, or Spanish Flies, one pound and half; Mustard, Pepper, of each half a pound; Verdigrise and Pellitory of Spain, of each two ounces and an half; Euphorbium one ounce and an half; Wax one pound and an half; Pitch, Rozin and Turpentine, of each one pound: Oyl a small quantity. One ounce or two of this Plaister spread upon Leather, may be applied to the Nape of the Neck.

The Brain is also strengthened by outward application of Powder, Rheum-Caps, by which it is comforted and made warm, and the Remainder of the humor dispersed.

Take Powder of Orris half a pound; Storax and Benjamin, of each two ounces: powder the head with them every night, and comb it off in the morning.

This Powder is very refreshing by its scent, strengtheneth the head, dryeth the hair: If you will make it stronger, put Cloves, Nutmegs and Cinnamon thereto.

Take of Stechas, Rosemary Flowers, and red Rose Leaves, of each half a small handful, dried Betony two scruples; Coriander seed, Lignum Rhodii, Frankincense, Orris, Nutmeg, Mastich, of each one scruple; Benjamin, Vernix, Mace, and Cloves, of each half a scruple: Powder them, and wrap them in the shreds of Scarlet, or sweet Cotton, and with a piece of red Taffety make a Rheum-Cap for the head, to be sewed in another Cap, or to be worn by it self.

The following Fumigation doth dry the Head:

Take of Lignum Aloes, Frankincense, Mastich, cleer, Amber, yellow Sanders, red Rose Leaves, Betony dried, of each one dram: Cinnamon, Mace, Cloves, Syrax Calamita, of each one scruple: make them all into gross Powder, which you must sprinkle upon coals of fire, and let the Patient take the fume or smook of it fasting, covering his head with a large Linnen cloth to preserve the fume, and opening his mouth. Let him do this twice or thrice in a week.

But if by Fumes he find pain in his head, you may only perfume his night-caps every evening: for which use this following is easily prepared:

Take of Frankincense, Mastich, Syrax Calamita, Benzoin, and Sandarach, of each half an ounce: Mace and Cloves, of each two drams: Make gross powder of them.

But because this is a stubborn disease, and useth to produce new Flegm after both general and particular Evacuations, we shall prescribe those usual Medicines by which the humor may sometimes be drawn away, and the Brain preserved longer in that state, into which by Physick it is restored. To this end you may make a Magistral Syrup of those Drugs which are in the Apozeme, or opening drink above written, taking three times as much of the purging things as before, which he may use twice or thrice in a moneth, the quantity of two or three ounces in a Decoction of Betony and Marjerom.

Or in stead of Syrups he may use to take these Pills.

Take

Take of the best Aloes half an ounce; Turbith that is Gummy, Hermodacts, and Agarick new made up, of each two drams; Diagridium one dram; Ginger and Cloves, of each half a scruple; Saffron and Salign, of each seven grains. Powder them all, and sprinkle them with the water of Marjerom: then dry them in the shade, and make them into a Mass or Body with Oxymel of Squils; of which let him take half a dram or two scruples once a week two hours before Dinner.

The day after his Syrup or Pills, also as twice or thrice in a week, let him take a quantity of this Opiate, or Electuary;

Take of Conserve of Acorus Roots, or of Ginger, and Citron Barks candied, of each one ounce; the Conserve of Sage and Rosemary flowers, of each six drams; Nutmegs candied half an ounce; one candied Myrabolan; old Treacle, and confectiion of Alkermes, of each three drams; of the Powder Diambræ, and Diamoschu dulcis, of each one dram; with the syrup of Citron Barks make it up: And let him take every morning two hours before meat, the quantity of a Chesnur; drink after it a little Wine and Water.

This following Balsom doth more strongly corroborate the Brain, of which he may take now and then three or four drops in Wine or Broth.

Take of the Chymical Oyl of Nutmegs 3 drams; Oyl of Marjerom, Rosemary, and Amber, of each half a dram; Musk and Amber-greece, of each one scruple: with a little Oyl of a mans skul, mix them together. You may make the Oyl of a mans Skull thus; Take the shavings or raspings of a skull that was never buried, put them in a Retort or Still so called, in as much white Wine as will suffice. Let them stand in Balneo Mariæ, that is a Kettle of warm water for some time; then distil it in Sand till it's dry, and you shall find the Oyl swimming upon the water which is drawn off.

Anoint your Nostrills within with this Balsom every night, and it will strengthen the Brain wonderfully.

There is another cheaper for to anoint the Nostrills with; which is,

Take the Oyl of Orange Flowers two drams; White Wax one dram; melt them gently, and put thereto Oyl of Amber half a dram; of the Chymical Oyls of Sage and Rosemary, of each fifteen drops; Oyl of Spike five drops; mix them together.

It is also very good for the drawing away of the matter which breeds continually in the Brain, by an issue in the hinder part of the Neck.

Lastly, The Baths which come out of Brimstone, Nitre, Bitumen, as those called *Bellucana*, are very good for the drying and strengthening of the Brain, if it be washed therewith for some days, after general evacuations are made. Daily experience teacheth us, that most greivous Head-diseases coming of cold distempers are thereby cured. It is profitable also to drink those Waters for the strengthening of the Stomach which alwaies doth sympathize with the head. Therefore I set down this digestive Powder;

Take of Coriander seed prepared one ounce; Annis seeds, and sweet Fennel seeds, of each three drams; Cinnamon and Nutmeg, of each two drams; Coral, Ivory, and Pearl prepared, of each one scruple; Sugar of Roses as much as all the rest, or for Rich folk twice as much, of which let him take a spoonfull after every meal, not drinking or eating for three hours after.



CHAP. II.

*Of Drowsie Diseases called Coma, Lethargie,
Carus, and Apoplexy.*

THere are four kinds of Preternatural Sleep, namely *Coma*, *Apoplexy*, *Carus*, and *Lethargie*. We will speak of them together in this Chapter, because they proceed from the same Causes, and are cured all the same way.

DIFFERENCES. These four Diseases differ one from another after this manner : In the Disease called *Coma*, *Cataphora*, or *Subeth*, according to *Avicen*, is a deep sleep ; but such an one as from which the Patient is raised, openeth his eyes, and answereth, but presently he is again in a deep sleep.

In a *Lethargie*, the sleep is like that of *Coma*, but it is joyned with a Feaver and Phrensie, or Dotage.

In *Carus* there is no Feaver as in *Lethargie*, but in *Carus* the sleep is more deep and profound, so that when the sick Party is joused up, he scarce opens his eyes, and answers not, as in the former, but yet being pinched he is sensible, and his Breath comes freely.

In *Apoplexy* the sleep is most deep, and a total privation of sense and motion, except breathing : and so therefore the Sick doth neither open his Eyes, answer, nor feel when he is hurt ; as also he breatheth very difficultly.

CAUSES. There are many Causes of these Diseases.

The first and chief Cause is Flegm and waterish humor contained in the Brain ; of which (when there is but a small quantity, that moistneth and cooleth the substance of the Brain, stopping up its Pores and passages) cometh *Coma*.

But if the same quantity of Humor so gathered together become putrified and corrupt, or grow into a Tumor or Swelling, or be dispersed throughout the Brain, it procureth a *Lethargie*.

When it is gathered in a great quantity without corruption, and that the Humor is sucked up into the substance of the Brain, it causeth a *Carus*.

And lastly, When the Humor is so great in quantity that it doth not onely fill the Brain, but also the Ventricles thereof, stopping and straightning them, & also when it doth offend the Original of the Nerves which come from the Brain, and is placed in the basis or bottom of the Skull, and when it hindereth the passage of the Animal Spirit, it begets an *Apoplexy*.

Secondly, Sleepy Diseases spring also from abundance of blood in the Brain, for if the store of blood contained be more raw, waterish and cold, it thickens the Animal Spirits, and makes them unfit to move ; as also the abundance of Humor charging the Brain, hindreth the free passage of the Spirits, and according as the Humor is more or less in quantity, more or less in coldness, it produceth a greater or a lesser Disease : So that both *Coma*, *Carus*, and *Apoplexy* may be caused thereby.

But drowsie Diseases, especially the *Apoplexy*, are usually caused by blood out of its Vessels, stopping and compressing the Ventricle of the Brain, and that falleth out either from a Vein broken in the Brain, or from an overfulness of the Vessels, or from some great Bruise or Contusion of the Head, or from some Cut or punctured Wound, by which the Veins of the Brain are divided, and so send forth much blood. And the Fracture onely of the Skull compressing of the Brain may produce a dulness, drowsiness or sleeping Disease.

Thirdly, it is without doubt that a Tumor in the Brain, burdening it with its Weight, may produce a sleepy Disease. This is reported by *Platerus* to be found in a certain Baron, who for a long time was sottish and sleepy, did nothing rationally, nor desired Meat, neither did eat any thing but what was forced into him, went not to Bed but by compulsion, but would sit all day at the Table leaning on his Arms with his Eyes shut, neither did he answer at any time without much asking and importunity, and then very little to the purpose. And after his death his Skull was opened, and there was found in his Brain a great Kernel, hard, and of a callous body ; the cause whereof might be some stroke upon the Head, which he had received long before the beginning of his Disease.

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Fourthly,

Fourthly, Many vapors flying into the Brain may be the cause of a sleepy Disease : for if the vapors be many and gross, that they burden the Animal Spirits, and darken them as with a mist, even as the Clouds in the greater World darken and obscure the Beams of the Sun. But if they be over-moist they do so wet the Brain, that it becomes weak and faint in its functions and performances. Therefore Drunkards sleep profoundly from the Vapor of the wine, and the abundance of Crudities sent up into the Brain. So Children that are troubled with the worms, are often taken with sleepy Diseases from the abundance of gross and thick Vapors which arise from crude and waterish Humors. So in intermitting Fevers or Agues, sometimes in the beginning of the Disease there is irresistible sleep, by reason of the crude and stinking Humors which are contained in the Veins, especially in the Mesenterick Veins, which Humors being made thin by the heat of the fit of the Ague, send many Vapor to the Head, and produce such sleep as ends with his cold Fit sometimes, and at other times continues to the end of the Fit, according as the Vapors are more gross or thin; or as they are more or less in quantity, and so are longer and sooner discussed and dispersed.

Fifthly, Many times so great a sleeping Disease is begot by the too frequent use of Medicines called *Narcoticks*, that do produce sleep, that many unawares by the unskillful use of Opium have slept their last. There is also the same stupifying force in some living Creatures, as in the *Torpedo*, or *Crawfish*. So *Plutarch* reports in the death of *Cleopatra*, That the Sting of a Viper causeth deadly sleep. But in Mans Body this stupid sleeping condition comes from the putrefaction of Humors, which is seen in malignant and pestilential Fevers; hence it is, that in those Diseases they are very sleepy oftentimes, which is a certain sign of Venosity and malignity, and sometimes of death.

DIAGNOSTICKS. The Diagnosticks or Signs which shew the differences of these sleeping Diseases were set down in the beginning of this Chapter : But the signs of the Causes that produce these Diseases are these.

When sleepy Diseases come from Watery Humors putrifying in the Brain, these are the signs; A Flegmatick Constitution, old Age, Infancy, a cold and moist Dwelling and Season, a stopping of an accustomed spitting, and blowing of Nose, and when the Sick man before the coming of the Disease was troubled with heaviness of the Head, dimness of the Sight, and dulness of the whole Body; and when in the Disease there is a defluxion of Rheum from the Nose or Mouth; or when the sick Party feelth it trickle down his Throat.

That sleeping Diseases are bred of blood, appears by a plethorick or full Body, red Face, pain of the Head, going before the Disease.

A Tumor or swelling in the Brain is scarce by any signs to be known, but is onely manifest after death by opening of the Skull, as was before mentioned.

That the Disease comes from Vapors flying into the Brain, appears from those signs which shew the particular Diseases of those parts from whence the Vapors are sent up to the Brain. A Surfet going before, with crude and sharp belchings and other signs of crude Humors in the Stomach and other parts of the lower Belly, shews that the Disease comes from Vapors which are sent from the Stomach : But if the Vapors come from worms, you shall know that in the Chapter of them.

PROGNOSTICK. As for the Prognosis or fore-knowledge of things in these Diseases; Every sleeping Disease is dangerous, but by how much deeper the sleep is, and the sick-man harder to be awaked, by so much greater is the danger; and therefore a *Carus*, is more dangerous than a *Coma* or a *Lethargie*; but an *Apoplexy* is worse than a *Carus*, for if it be violent, it is altogether incurable, as *Hippocrates* observeth in his 42. Aphorism of the Second Section, which is thus: Its impossible to cure a strong Apoplexy and not very easie to cure a weak one; a strong Apoplexy is when the breathing is uneven and disorderly and sometime intermitting, and if such a breathing is very violent, the Disease is stronger, if the breath be stopt it is most strong, but when there is some order in the breathing, the Disease is weaker, which is declared by *Galen* in his Comment upon the said Aphorisms.

A sleeping Disease is very dangerous which comes upon an acute Disease, for it either signifies the extinction of the Natural heat, or a poysonous malignant quality which hath seized on the Brain.

That Disease which comes by consent of the lower parts, and from Vapors which arise from them, is less dangerous.

Men sick of a Lethargie die within seven dayes, if they live longer, they recover. *Hippocrates* in his Book of Diseases.

Sleeping Diseases in old men are for the most part deadly; for in regard of their want of Natural heat, they having a weak Concoction and weak Expulsion, it comes to pass that they cannot overcome and expel that Humor which causeth the Disease, much less can they expel that Humor which aboundeth in the Brain, for since the Brain is the coldest part of the body, it must needs in old people have its heat diminished and extinguished sooner than any other parts.

In a Lethargie, if a Tumor happen under the Ears, or if matter or filth come forth of the Ears, and the symptoms abate, it is a sign of health, for it sheweth the strength Nature hath got over the Cause of the Disease, which it expels before perfect Confection out of the Emunctories under the Ears,

or

or purgeth it out being turned into Matter by the Natural Passages.

They who are preserved and cured of the Lethargie do use after to spit Matter and Blood, *Hippocrates* in *Coac.* and Third Book of *Diseases*. This Opinion, say some, agrees not with Experience, for few have seen a true *Empyema*, or corrupt Matter between the Breast and the Lungs, follow a Lethargie: But the Interpretation of *Mercurialis* upon the Aphorism is very right, for he said, That *Hippocrates* meaneth by *Empyema* and *Empyicus*, not the Disease of the Breast, but when filth is discharged by the Ears and Nostrils. And *Galen* hath taught us in his Commentary upon Aphorism 8. Sect. 5. and Aphorism 44. Sect. 7. That *Hippocrates* by *Empyema* understands there, not onely that Suppuration and breeding of Matter which is in the Breast, but also that which is in all other parts.

It is a good sign when a Phrensie followeth a sleepey Disease coming of a cold Cause, because by that violent heat which causeth a Phrensie, the watery matter which begets a sleepey Disease is concocted.

Men in Apoplexies die in seven days, except a Feaver take them, *Hippocrates* 2. of *Diseases* and Aphor. 51. Sect. 6. but that Feaver must be a violent one, and essentially spring from the Inflammation of the Humors and Spirits, otherwise it will not dissolve the matter which causeth the Apoplexy: for if it be gentle, and onely symptomatical, or hapning to the Disease as an Accident, as in an Apoplexy, coming from the burning disposition of the Head through too much blood contained in the Veins thereof, then the Feaver doth not diminish the Disease, but rather cause some symptoms of Madnes, which weaken the Animal Faculties: and in this case a Phrensie coming upon a sleepey Disease is not good, as we said in the Prognostick before mentioned. Moreover, a Feaver that must dissolve a sleepey Disease, must have another condition, namely, That it come in the beginning of the Disease, whilst Nature is in some strength to put forth strong endeavors. For that Feaver which comes after the Disease hath long continued, is not healthful, as *Hippocrates* in *Coacis* saith, Apoplexies being like to be dissolved, if a Feaver come upon them after, they have long continued, are deadly.

A faint sweat in an Apoplexy is evil, for it shews great oppression of Nature.

CUR For the Cure of these Diseases, as of all other, three necessary means are required.

First, Order of Diet.

Secondly, Manual Operations, or Chyrurgery.

Thirdly, Medicines, or Physick.

The Diet in the beginning of these Diseases must be very slender, because they are very acute, or violent and sharp: therefore the Patient must be fed onely with thin Broaths now and then: But in the time of the declination of these Diseases, we may use the same Diet which is prescribed in the Chapter before-going, treating of the cold Distempers of the Brain.

The other two means are to be used by this following Method.

And because sleepey Diseases are sudden and full of danger, they require the Physicians cheif diligence, and quick application of Medicines.

First therefore, When the Physician is called to one taken with a sleepey disease, he shall endeavor to raise the Patient from his deep sleep by offering violence to all his Senses, and laying his Eyes towards the Sun-beams, and clearest light; he must make a great noise in his Ears, and he must be called aloud by his own Name: He must put sharp things to his Nostrils, as Rue, Castor, Vinegar, and sharp things into his Mouth also.

He must stir up his Feeling with pinching, pulling of Hair, by ligature or binding, bending of the Fingers, and the like.

Make first a Clyster of the common Decoction which is most ready, after this manner:

Take of common Decoction for Clysters one pint and an half, Hiera Picra and Diaphœnicon, of each one ounce, Oyl of Rue and of Lillies, of each one ounce and an half, Honey of Roses two Ounces, Salt one Dram: Make a Clyster, give it presently.

While these things are doing, the Physician ought seriously to consider whether blood-letting be fit or not; for in these Diseases, as *Celsus* said, Blood-letting either kills or cures; and blood-letting is good, if blood be the principal Cause, or the assisting Cause, or if it be *sine qua non*, that is, a Cause without which the Disease would not be, if strength permit. But his strength is not to be looked upon as he in his Fit: when his Animal Actions are hindered, but as it was before the Disease came. For if the Patient was formerly strong, he will endure blood-letting, except the Apoplexy be very strong; and if his strength be not taken away by resolution of the Parts, but by oppression of them, then is blood-letting good. But if blood offend no way, or if the strength be quite gone, or the Patient very old, you may omit blood-letting, but otherwise presently.

The first thing to be done either by Night or Day to one in any of these Diseases, is bloodletting nay, before the Clyster, if it be not already administred: But his Arm must first be well rubbed and chased.

And this is to be observed, That it is more profitable and safe, not to let out so much blood at once as you require, but by degrees in some hours distance; for by the reparing of Blood-letting the matter is more easily moved, and the strength more preserved. Look in the Sick-mans Face after his first loss of blood, and feel his Pulse; for if his Face be better coloured and more lively, and his Breath more free, and his Pulse good, there is much hope, and you may let blood the second time with more confidence. Make the Orifice large, otherwise he will not bleed, his blood is so thick: The more plenty of blood he hath, the more he may lose; but if Flegm abound you must bleed sparingly, lest the Vital heat be lost, which is so absolute necessary for dissolving and dissolving this Disease.

A singular Example of large and often bleeding in an apoplexy, is laid down by *Zacutus Lusitanus*, in his First of *The chief Physicians*, and his 33 History, in these words: *A certain Noble young Maid, fell first into a general forgetfulness of all things, and then into a true Apoplexy, with the flowing of her Courses; unto whom when they had applied many Medicines both above and beneath, as Ligatures, sharp Cysters, Cupping with Scarrification: the Indication which comes from the flowing of the Terms being neglected, and danger coming on through continuance; I perceiving her strength to be sufficient for it, having first rubbed her Thighs very well, and placed Cupping-glasses thereon; in the space of eight hours opened the Head vein four times, and then she began to speak and so recovered,*

Some of our late Practitioners, are so bold as to open the Jugular Veins in Apoplexies, and say they cure also: and in so doing they take this course: First, They bind the Neck gently with a Linnen cloth, after the Vein is opened they presently lose it, and the Blood flows well without a Ligature, which might attract it to the Head; after they heal up the wound with a stinking Plaister without binding, and so they affirm the blood will easily stop: which *Zacutus Lusitanus* confirmeth (though he useth Ligatures) in his 79th Observation, in his First Book of *The Admiral Practice of Physick*, where he relates a Story of a most sharp Squinancy; in which, by the advice of most skilful Physicians, the Jugular Veins were opened, from whence followed (as he says) a most dangerous Flux of Blood not to be stopt, which brought the Patient very weak: *Zacutus* being sent for applies *Galen's* Plaister, which he in his Fifth Book of *Method*, and fourth Chapter, useth with good success for stopping blood in Arteries and Jugulars, and bending the Patients Neck gently he comes to his strength, and is cured. This Plaister is made of Frankincense, Aloes, the Hairs of a Hare mixt with the White of an Egg, having twice as much Frankincense as Aloes, as *Galen* teacheth in the place mentioned, sometimes an equal part of each, when the Bodies are harder. And *Galen* commends the Operation before-written, when he saith, *This Plaister stops the flux of the Jugular Veins without a Ligature or binding*. But this I would take notice of, That the blood doth not flow forth so violently in one that hath an Apoplexy, as in one that hath a Quinzy, because the blood is congealed; as *Hypocrates* shews in his Second Book Of *Diseases*, in the former, from whence the Veins and Arteries called *Caiodites* or *Jugulars*, are stopped: but in the later the blood is hot and thin, because they who have the Quinzy, have always an acute Feaver whital.

A few hours after bleeding you must purge without respect of time. Neither let the Physician be too curious or fearful in purging, since the Disease doth much require it, and the time of the Disease is not usually long. And that purge ought to be very strong because the Humor is stubborn, and the Senses so drowned that they cannot be roused or stirred up without strong Medicines. And that Medicine is usually one ounce of the Electuary *Diacarthamum*, dissolved in Betony-water with half a Scruple of Castor; Or,

Take Turbith four Scruples, Agarick two drams, Ginger two Scruples, Fennel-seeds one Scruple, Castor six Grains: Infuse them in a sufficient quantity of Betony-water, and in three Ounces of it strained, dissolve the Electuary, *Diacarthamum* three Drams, Syrup of Roses one Ounce; let him drink it.

• Take of Cochie Pills the less, one Dram, Castor three Grains; with Betony-water make seven Pills, and if the Party cannot swallow them, dissolve them in Sage, Lavender, or Betony water. Or,

Take of Cochie Pills the greater, and Pills of Agarick, of each half a Dram, the Troches of Albandal, Diagridium and Castor, of each three Grains; with Honey of Rosemary make Pills, or dissolve it in Sage-water. Or this Potion.

Take of Senna half an Ounce, of white Agarick one Dram and an half, of Turbith one Dram, of Ginger and Galanga half a Dram; boyl them in Sage and Rosemary-water. In two Ounces and an half of the strained Liquor put two Drams of *Diacarthamum* the Electuary, and of Castor half a Scruple, of simple Oxymel half an Ounce.

In a Lethargie, the purging Medicines must be milder from the beginning by reason of its continual Feaver accompanying; made of Agarick; with Rhubarb of Scammony, or of Pills of Hiera with Agarick, because Cholera is that which carrieth the Humors to the Head, yet in the progress of the Disease, when the Matter is flown to the Head, and sticks there, we may use the purges above written.

Trallianus

Trallianus gives one Scruple of Scammony with two Scruples of Caſtor in Oxymel, by which he hath cured many deſperate Lethargies. And *Oribafus* ſaith, That there is no better Medicine for a Lethargie to purge away that Flegm which Choler brought to the Head, than Scammony and Caſtor.

It often happens, that the Faculties are ſo oppreſſed that Phyſick will not work, which is an evil ſigne, and ſuch ſeldom recover. But becauſe *Celſus* ſaith, When things ſo fall out, we muſt uſe ſuch Medicines as are at hand, if they be proper for the Diſeaſe, which is ſo deſperate that we may uſe deſperate Medicines. For as *Serenus* ſaith, The Phyſicians think ſuch Medicines better in deſperate caſes, than for the Patient without tryal to die an eaſie Death. And *Celſus* ſaith, Many things may be done in time of danger and neceſſity, which may well be omitted at another time. Therefore when we have uſed thoſe Medicines without any ſucceſs, we may well riſe higher, namely, To thoſe Medicines which are made of Antimony; eſpecially to thoſe which are leſs vehement and furious; as *Aqua Benedicta*, of Dr. *Ruland*, made of the Infuſion of *Crocus Metallorum*, which purging both upwards and downwards, bringeth ſuch a quantity of flegm not only from the Stomach, but the Brain alſo, as ſometimes the Patient is cured only with this Evacuation. And I can witneſs upon my own Experience, That I ſaw a Noble-man thrice in two years cured of the Apoplexy, with this only Medicine. Although ſome learned men do forbid the uſe of Vomits in theſe Diſeaſes, yet we muſt yeild to Experience, which daily teacheth us, that Children affected with ſleeping Diſeaſes are more readily and ſafely cured by the vomiting Salt of Vitriol, than by another Medicine,

The Tincture of Tobacco drawn with *Aqua vita*, and taken in the quantity of two Drams, with Honey poured down the throat, excellently.

After you have given a purging Medicine, before it begins to work, and alſo while it worketh, you muſt think of all thoſe things which cauſe revulſion of Humors, and bring them into practice, not only Frictions or Rubbings, and Ligatures or Bindings, mentioned before, but alſo Cupping glaſſes to the Back, Shoulders, Arms and Thighs, without Scarrification if he was formerly blooded, and with Scarrification if blood-letting was omitted.

In an Apoplexy you muſt not apply Cupping-glaſſes to the Breſt or Hypochondria or parts under the Ribs, leſt the Muſcles of the Breſt and Belly being contracted, the Breath be hindered.

The cheif and onely Remedy in an Apoplexy eſpecially is to apply Cupping glaſſes to the Head: Which kind of Cure the famous Phyſician *Fracſtarius* being taken with an Apoplexy, did direct for himſelf by his Nods and ſigns; but for want of their underſtanding of them, he died.

Zacutus Luſitanus in his 33. Hiſtory, and firſt Book of the *Principal Phyſician*, reports, That he cured a deſperate Apoplexy, by ſetting a Cupping-glaſs twice upon the hinder part of the Head with deep Scarrification.

A Veficatory, or Plaifter to draw Bliſters to the Neck behind, and to the Shoulders.

Let two or three ſharp Clyſters be given every day.

Take of Pellitory of the wall, Hyſop, Calamint, Organ, Sage, Rue, and the leſſer Centuary, of each one handfull, Carthamus ſeeds half an ounce, of Fennel and Cummin ſeeds, of each three Drams, of white Agarick tied in a linnen clout, two dramms, of Coloquintida tied with it, one Dram, and an half: Boyl them to one pint, ſtrain them, and add them to the Liguor of Hiera Picra, half an Ounce, of Diaphenicon one Ounce, of Oyl of Rue two ounces: Make a Clyſter.

The Chymical Phyſicians do uſually add two Ounces of *Aqua Benedicta* of Dr. *Ruland*, made of the Infuſion of *Crocus Metallorum*, and then it will work ſtrongly.

You may give four or fix ounces of the ſame Infuſion at a time, and alſo you may take it out of the Glaſs wherein the Infuſion was made, ſhaking it beſore, that it may have ſome of the Feces or reſidents of the powder in the bottom to make it more ſtrong. Therefore for the moſt part we do preſcribe Clyſters of *Aqua Benedicta* or *Vino Emetico*, that is the Infuſion of *Crocus Metallorum* becauſe in many Diſeaſes, eſpecially Cholicks, it doth wonders.

Take of Emollient Decoction for Clyſters one pint, of Diaphenicon one Ounce, of Infuſion of *Crocus Metallorum* ſhaked together, four Ounces: Make a Clyſter.

If the Clyſter comenot away in the due time, give this Suppoſitory.

Take of the powder of Hiera Picra of Galens preſcription, two Drams, of Coloquintida and Agarick the beſt, of each half a Dram, of Diagridium one Scruple. Sal gem two Drams, Honey boyled to a ſufficient conſiſtance or thickneſs, as much as is ſufficient: Make Suppoſitories.

It often falls out that the Muſcle of the Arſe called *Sphincter*, is ſo weak, that a Clyſter is given in vain becauſe it cannot be contained, which is a deſperate condition.

Apply Caſtor and Vinegar to the Noſe, which are ſaid to have a ſpecial quality againſt ſleep.

It is alſo vety good to ſprinkle ſharp Vinegar upon a red hot Iron, that the Patient may receive the Vapor in his noſtrils. And it will be better to put Nigella, or Pepperwort ſeeds, Rue ſeeds or Caſtoreum to the Vinegar. But Vinegar it ſelf warmed and applied to the Noſe, if it be ſharp, ſtirs up the Patient powerfully, and more powerfully if you put to it Pepper and Caſtoreum. The Fume of Brimſtone doth alſo raiſe from ſleep.

The hairs of a Goat burnt, or the Horn of a Deer or Goat burnt, held to the Nose, are most strong for raising up of him that is in a deep sleep.

The fume or smoke of white Amber is excellent for the awaking of men in sleepey Diseases; as also the Oyl of it often applied to the Temples and Nostrils.

Rub also the Soles of the feet with Salt and Vinegar, anoint the hands with Oyl of Rue, and of Castoreum; touch the Tongue and Palate with old Treacle dissolved in *Aqua Cælestis*, or *Apoplectica*. But take heed that your Treacle be not new, for then Opium will cause more sleep. The Medicine called *Anra Alexandria*, or *Confectio Anacardina*. You may also boyl Mustard-seed in Vinegar or strong Wine, and wash the Palate therewith Roots of Pellitory of Spain boyled in Oxymel that is, Honey and Vinegar do the same thing. But with all these Medicines you may safely use Castoreum.

When you have purged the Body generally in all parts, you must then purge the Head either sensibly or insensibly.

Sensibly the Nostrils and Palate, by Errhines or Neeings, which are prescribed in the Cure of a cold Distemper of the Brain, and by touching of the Palate as before. To all these you may add Rue, Castoreum and Vinegar.

Concerning Neeing, it is to be observed, That if the Disease remain and encrease; and if the Patient be hard to be raised, it is very profitable: but we must not use them too long, lest they clog the Brain, and move the Humors too much. But in the beginning of the Disease we must abstain from unseasonable Neeing, because it disperseth the Humor which will fix in other parts; from whence come stubborn Diseases, or a small sleeping Disease turns into a strong Apoplexy.

Last of all, you must use those things which resolve the Humor insensibly, which are compounded in this manner:

Take Bayberries, and Juniper-berries, of each one Ounce and half, Roots of Angelica, Zedoary, and Master-wort, called Imperatoria, or Pellitory of Spain, of each one ounce, Leaves of Betony, Sage, Rosemary, of each one handfull, Rue, Savory, Marjerom, Lavender-flowers, of each half a handfull, boyl them in Vinegar. Dip a Sponge or linen cloth in this Liquor, and apply it warm to the Head. It is a wonderful thing to see what good this doth in sleeping Diseases. But you must rub the Arms and Hands, and the Legs and Feet with the same.

Take of Castor half an Ounce, of Mans Hair burnt three Drams, of the juyce of Rue, of Vinegar and common Oyl, of each two Ounces; boyl them to an Ointment, and then anoint the Head therewith after the Fomentation.

Take of Oyl of Pepperwort, called Oleum Costinum, of the Oyl of Castor, and Euphorbium, of each one Ounce, of the Powder of Mustard-seed, and Ephorbium of each one Dram, of Vinegar one Spoonful; of Wax as much as will serve to make an Ointment.

If the Disease doth not decrease after all these are used, then you must apply a great Cupping-glass to the Crown of the Head, and to the hinder part of the Head.

But a Vesicatory is best if Euphorbium be in it, for that will draw the humor outwardly which lieth deep.

Some are so bold in the height of the Disease to burn the hinder part of the Head, between the first and second Vertebra, or Back-bone with an actual Cautey.

Zacutus Lusitanus applied many in his time with good success, as he witnesseth in his First Book of *Wonderfull Practice*, and the fourteenth Observation, in these words: *I being called to visit a sick man, who was for the space of thirty dayes taken with drowsiness and irresistible sleep, with a small Fever, not able to hold open his eyes; he had used many evacuating and diverting or repelling Medicines, but they perfected nothing; therefore I applied the Cautey with much benefit; for with a red hot Iron I scorched the crown of his head till it was hard and crusty, as also the hinder part and almost every where about his head, by which means he awaked, and the places burned beginning to matter, he arose and came to him self. By this means I remember I cured two Sleepers, contrary to expectation, after all other means had been used in vain: and these were cured by the heat of the fire melting, dissolving the Humor which came forth at their Mouths and Nostrils many dayes after.*

Others have an ancient Custom, to hold a red hot Frying-pan so near the Head that it may burn the Hair, and not the Skin.

It is good in the Diseases to give the Patient a little *Aqua Cælestis*, or Apoplectick-water, or other Strong-water, which by its piercing quality doth very much good, and hath freed many from Apoplexies present and approaching, if blood be not predominant or chief in the Body, which will be hurt by the use of Strong-waters.

Now there are many sorts of Apoplectick-waters, in *Languis*, *Wickerus*, *Quercetanus*, *Crollius* and others; but we shall here only lay down one Water invented by my self, and made of the most proper Ingredients.

Take

Take of Peony Roots, and Mistletoe of the Oak, of each two Ounces, Calamus Aromaticus, Galangal, and Cyprus, of each one ounce: Betony, Sage, Marjoram; of each one handfull, Peony, Anis, Fennel, and Carway-seeds, of each three Drams, Lavender, Stæchas, and Rosemary flowers, of each a pugil; Nutmeg, Mace, Cloves, Cubebs, Grains of Paradise, Cardamum, of each half an Ounce, Cinnamon two ounces, Saffron one Dram and an half, the Species of Diambra and Diamofchu of each two Drams: Cut and beat them according to Art, put them in a glass-Still, and then pour in as much of the best Spirit of Wine as is sufficient. Let it stand in Balneo Mariae, or a Kettle of warm-water, with Hay in it for the space of eight days, afterwards draw it off, and keep the Water in a close stoppt Glass-bottle.

Now if the Disease decline, and his sleep begin to cease, you must omit all other Medicines and follow those things onely which strengthen the Brain; which may be very well done by the use of that Opiate or Electuary which I prescribed in the Treatise of the cold Distemper of the Brain. But if you will use stronger than that, take the *Aqua Apoplectica* above mentioned.

Continue the use of Castor above all things, if the Disease continue, giving every Morning three or four Grains of it in the of Oxymel Squills, or simple Oxymel. *Trallianus* affirmed, That many overcome with this Disease, have been recovered onely with this Remedy.

Outwardly you may use some Chymical Balsoms against Apoplexies, of which there are divers: We will onely discover one of the best unto you.

Take of the Oyl of Nutmegs by Expression, half an Ounce, Ambergreece, Musk, and Civit, of each one Scruple, the Distilled Oyls of Spike, Amber, Cinnamon, Rosemary, Cloves, of each half a Scruple. With this Balsom touch the Palate every Morning, and drop some into the Ears, and snuff some into the Nostriils. For this purpose the distilled Oyls of Nutmegs used in the same manner are much commended.

Lastly, We must observe, That in the Cure of these Diseases, we must use less hot things, and lose more blood, when the Disease is caused of blood, and also we must mix Medicines that purge Choler with those that purge Flegm.

They which have been troubled with any of these Diseases, and are cured, do use many times to relapse and fall into the same again; which that you may prevent, you must correct the cold Distemper of the Brain, as before is taught; by which Method you may prevent either Apoplexy, Carus, Lethargie, or Coma. And if the Brain be very cold after Generall Evacuations, you may often use *Aqua Apoplectica*; or these Tablets or Lozenges following:

Take of Ambergreece half a Scruple, the distilled Oyl of Anis-seeds, Cinnamon, and Nutmeg, of each three drops, Oyl of Cloves, one drop, Sugar dissolved in Orange-flower-water, four Ounces: Make these into Lozenges, and let him take a dram or two every Morning.

Pills to strengthen the Head are thus made:

Take of Cubebs, Mastick, Nutmegs, Cloves of each one Dram, Ambergreece half a Dram, of Musk six Grains: With juyce of Marjoram make pills, and let him take one Scruple at a time twice in a week at his going to Bed.

This Powder is in much use, and is much commended:

Take of White-Amber half an Ounce of the powder, of the Electuary called Diarrhodon Abbatis, two Drams, of Peony Roots one dram and an half: Make a Powder of them, and take a Dram at a time in any water for that purpose before every New Moon.

It is good to hold Nutmeg in the mouth, and chew it very often.

Sweet Perfumes are to be used to the Nose, especially the Apoplectick Balsom.

Use Spices with Meat, after Meat a digestive Powder mentioned in the Cure of the cold Distemper of the Head.

If you fear a sleepy Disease will come from too much blood, you must first take some away by the Arm, and use all means to make the Pills or Hemorrhoid-veins to bleed, which is very good; for which you must purge with Senna and Rhubarb, and with cooling things.

If you fear an Apoplexy from Malancholy, you must purge Malancholy, and provoke the Hemorrhoids, and give the Medicines prescribed for the strengthening of the Brain, especially that powder which is made of White-Amber, Diarrhodon, and Peony Roots.

CHAP. III.

Of Waking Coma.

THe Disease is called *Waking Coma*, or *Coma vigil*, is put among sleeping Diseases, yet because it is another condition different from the rest, we will treat of it in this Chapter by it self.

This *Coma Vigil* is a Disease in which the Patient lieth with his Eyes shut as if he were asleep, when he is awaked and distracted; and if you touch him, he presently openeth his Eyes and looks strangely, and falls asleep again, which is hindred by divers strange imaginations and fancies. This Disease *Galen* placeth as a mean between a Phrensie and *Lethargie*, and calleth it *Typhomania*,

CURE.] The usual Cause of this Disease, is Choler mixed with Flegm, by which Humors the Brain is made too moist, or it is swelled or inflamed; from whence either the Tumor called *Erysipelas œdematosum*, or *œdema Erysipelatosum* do arise. But because those Humors are diversly mixed sometimes a greater proportion of the one than of another, it comes to pass that the Diseases from them are divers: or if Choler be chief, then it is a *Delirium* or dotage, and the sick man sleepeth but little though his Eyes be shut; but if Flegm prevail, the Patient doth sleep more, and is less dotting, and being raised makes less noise, and is not so foolish.

This *Coma Vigil* comes by sympathy from Cholerick Vapors mixed with Flegmatick that fly into the head, which happens in Feavers that come from mixed Humors, especially in half Tertians, which are made of a Tertian and a Quotidian. We may safely affirm that this Disease cometh from Vapors simply hot and moist in strong Feavers, because sleep comes from moisture, and waking comes from heat.

DIAGNOSTICK.] The Diagnosis or knowledge of this Disease is plain enough by what hath been said, that they which have it, lie with their Eyes shut, and seem to sleep, yet they cannot sleep, but toss and tumble, lift themselves up suddenly, strive to get out of their bed, and then fall again asleep. The divers Causes are easily known from what hath been said.

This Disease is accounted dangerous if the Brain have a swelling or Inflammation, or if it be overcome with the Humors above mentioned, namely Choler and Flegm: or if it come of Vapors which arise from the malignant humor of a Pestilent Feaver.

If the Dotage of *Delirium* be strong, it produceth a Convulsion, for it comes of a Humor or Vapor which is very sharp, which falling upon the Nervous parts causeth a Convulsion.

CURE.] A true *Coma Vigil* is cured as a Phrensie and *Lethargie*, and if it incline most to a Phrensie, then the Medicines proper for that are most to be used; if to a *Lethargie*, then the Medicines proper for that. But a *Coma* that cometh by Sympathy, is cured by curing the malignant Feaver from whence it cometh; but the more peculiar Remedies must also be used, which draw and keep humors from the Brain in the beginning of the Disease, as bleeding in the Arm and Foot, Vinegar of Roses applied to the Forehead, Clysters, Cupping-glasses to the Shoulders, Back, Buttocks, Thighs, opening the Head vein, applying Leeches to the Temples, and behind the Ears, and laying living Creatures to the Head to dissolve the Humor.

CHAP. IV.

Of the Sleeping Diseases called *Catoche*, and *Catalepsis* or Congelation.

THere is some Confusion among Authors about this *Catoche*, for some take it for *Coma Vigil*, Waking Coma, others for *Catalepsis*: *Paulus* gave them the cause of their difference in his Third Book, and the Eighth Chapter, he treats of a twofold *Catoche*; and first under that Name he speaks of a *Coma vigil*: In the end, under the same Name he speaks of *Catalepsis*. Custom hath brought it to pass, that *Catoche*, and *Catalepsis* are taken for one and the same Disease in all Authors; the *Latines* call it commonly *Congelation*, or stiffness of the Body.

It is a Disease seldom seen, and to be admired, and those Authors which have seen the Disease do think it so much worth the Observation, as to describe the whole passage and History of it. First of all

all, *Galen* in his First Comment, Prorret. Sect. 2. Part 55. mentioneth a Story of a School-fellow of his, who when he had wearied himself with long study, fell into a *Catalapsis*, or Congelation; He lay (saith he) like a Log all along, not to be bent, stiff and stretched out, and seemed to behold us with his eyes, but spake not a word: and he said, that he heard us what we said, at that time, although not evidently and plainly, and told us some things that he remembred, and said, all that stood by him were seen of him, and could remember and declare some of their gestures at that time, but could not then speak or move one part of his body. But *Fernelius* in his Third Book of the Parts of Diseases Chap. 2. relates two Stories, which are these: One while he being very studious and writing, was so suddenly struck with this Disease, that sitting and holding his Pen with his eyes open, and looking upon his Book, you would have thought he had been hard at study till he was by calling and jogging found to want all sense and motion. Another I saw like a dead man, lying along with neither seeing, hearing, nor feeling when he was pinched; but he breathed freely, and whatsoever was put into his mouth, he presently swallowed; If he were taken out of his Bed he did stand alone, but being thrust he would fall down, and which way soever his Arm, Hand or Leg was set, there it stood fixed and firm; you would have taken him for a Ghost, or some rare Statue.

You may read the like Stories in *Schenkijus*, *Marcellus*, *Donatus*, *Rondeletius*, *Jacotus*, and others: from whom you may gather, That in this Disease there is found a destruction or hindrance of the internal and external Senses with a stiffness of all the Members: and sometimes the Senses are not so much hindered but the sick-party heareth those that speak unto him: sometimes the members are not so stiff but they may be bent and bowed by them that stand by, and put into divers postures.

CAUSES. The Causes of this Disease are divers: *Galen* in his Comments, Aphorism 3. Sect. 2. says, That a *Catalapsis* comes from a cold Distemper of the Brain, which Distemper chiefly seizeth upon the hinder part of the Head, makes it stiff and thick, from whence the Nerves proceeding are also made stiff, and such a Distemper may seize upon all the Nerves, whether it come of an external or internal Cause: but some question this Cause, supposing that no living body can be so cold as to have such a Congelation: But *Galen* answereth this in his 5. Chap. of his Book of the Difference of Diseases, by a reason taken from Experience in these words: "For those who in a Journey are taken with cold which is unto death, are thus stiff, whom the Greeks call *Emprostos*, or Bowers forward: *Opisthotos*, or Bowers backward: *Tetanos* extend streight: and others that are killed with cold are taken with this Catoche or Congelation. Therefore *Galen* teacheth us, That a *Catalepsis* may be got by external cold, and Reason may easily persuade us to it, for they which are killed upon the way with great cold do first grow stiff, they have a stiffness of Congelation before they die, therefore cold may bring a less stiffness than that which bringeth death. So we see that Congelation of the Nerves or *Catalepsis*, may come of a cold Distemper, and the sooner if it be mixt with a dry Distemper.

But this disease is most often gotten by a cold and dry distemper joyned with matter, that is an Humor or melancholy Vapor, from whence cometh a Constipation or Congealing of the hinder part of the brain, an Extension of the Nerves, and also a stiffness of the same: from this Humor it cometh (I say) not onely in respect of the quality, which is cold and dry, but also in respect of its quantity, which by Repletion makes a Distention, or stretching forth of the Nerves.

Aetius in his Sixth book and fourth Chapter, saith, That a Congelation may be caused of blood unto which thing *Rondeletius* consents, saying, That it comes to pass when the Veins and Arteries of the brain are so full, that the body groweth stiff, and distended or stretched out like those bodies that are congealed with cold Weather: he confirms his Opinion by History of a Noble-woman taken with a continual Feaver called *Synochus*, who had in the nineteenth day a Congelation, which was cured by a large Flux of blood from her Nose.

Sennertus hath found out a new Cause, which he saith is a congealing Spirit by which the Animal Spirits are fixed, and made immoveable: he denies that the force of Congealing and Fixing depends upon a cold and dry distemper, but riseth from some hidden quality. Such Congealing Spirits are found in the greater World, as in Thunder, when men are thereby made stiff, and as it were congealed: As *Cardanus* reports of eight Mowers, which supping under an Oak, were struck with Thunder so as they kept the same shape of body, the one seeming to eat, the other to lay hold of the Pot, another to drink, when they were all dead. It is usually reported, that Wine will be congealed in the Vessel by the Spirit of Thunder: In Earthquakes many times such Spirits break forth suddenly out of the Earth, as make Men and other living Creatures to be stiff and stark. Moreover, *Sennertus* addeth, that there is a great congealing force in Nitre and other Minerals: he brings no Examples, we shall onely bring one Instance taken from Lead, whose Vapor doth so fix and congeal Mercury, or Quick-silver, that it becomes thereby malleable, or to be beaten with the Hammer.

This Opinion of *Sennertus* were not wholly to be rejected, if he had not made this the only cause of the Disease, and cast off all the rest: which when they are allowed and confirmed by *Galen*, and the

the best of Authors are not easily to be cast off and denied. Nor is it needful that we fall to hidden Causes when there are enough visible and manifest able to produce such effects as is before declared. And when *Sennertus* says, That this his congealing Spirit is caused of a melancholy Humor, he seemeth to differ from the common Opinion, which is, That a Congelation cometh of a Cold or dry melancholy Vapor.

DIAGNOSTICK. The knowledge of this Disease, or Diagnosis, is manifest from the Stories of *Galen* and *Fernelius* already mentioned; for the evil befalls a man quickly, and leaves him in that posture in which it found him, and keeps him unmoved as if he were congealed: The diversity of Symptoms which we propounded before, is seen plainly. We foretel this Disease by the same signs as we do other sleeping Diseases; as the Symptoms are greater or less, so is the Disease more or less dangerous.

CURE. The way of Cure is twofold, either in the time of the Fit, or out of the Fit: In the Fit you may use those Medicines which are set down for sleeping Diseases; out of the Fit you must labour to cure Melancholy (the Disease so called) if the Congelation come from a melancholy Humor or vapor, which is the most common cause of it; but if a cold Distemper either inward or outward give this Disease a beginning, the Remedies which cure it are to be taken out of the first Chapter of this Book. And lastly, If plenty of blood have begot this Disease, or doth maintain and nourish it, it is proper to diminish it by opening a Vein.

You must advise the patient to a hot and moist Diet, as in all Diseases that come from a melancholy Humor.

CHAP. V. Of the Palsy, or Paralysis.

A Palsy is the loss of Sense and Motion in some parts of the Body, by reason of the stopping of the passages of the Animal Spirits.

There are many kinds of Palsies; for either it is in all the parts of the Body below the Head, and then it is called *παραπλήγιά*; or else it possesseth onely one side of the body and then it is called *ἡμιπλήγιά*; or it possesseth but one part of the body, and then it is called a *Particular Palsy*; although some Authors use all these terms, as *Paralysis*, *Hemiplegia*, *Paraplegia*, *Paresis*, and *Resolutio*, promiscuously for one and the same Disease, which is a loss of Sense and motion in any other part of the body.

There is therefore a double Palsy one called *Perfect* in which Sense and Motion is quite gone, another *Imperfect* in which Sense and motion are decayed and diminished, and if it be a small diminution, it is not a Palsy, but a numbness or dulness called *Torpor* or *Stupor*, which is the way to a true and perfect Palsy, and the fore-runner thereof.

There is another kind Palsy, which is, When the Motion is hurt, and the Sense not: or when the Sense is hindered and the Motion not.

CAUSES. The Causes of a Palsy are generally all those which hinder the passages of the Animal Spirits into the Nerves and Muscles.

The chief of all is a watery Humor, which by stopping, compressing, condensing, or making thick, refrigerating or making cold, hinder the passage of the Animal Spirits.

This watery Humor comes from the Brain, and falls upon the Nerves and Marrow of the Back: So a light Apoplexy turns into a Palsy, when the Humor that caused it falls from the Head upon the Marrow and beginning of the Nerves, and so gets into the substance of them, and shuts up those insensible passages through which the Spirits come to the parts; or descending by the hollow of the Back-bone, and by the Marrow of the Back, and running upon the Nerves, it compresseth and streightneth them, whereby the Animal Spirits are hindered in their Motion.

Moreover, the same Humor may so thicken the substance of a Nerve by its coldness, that it cannot be passed through by the Animal Spirits.

And lastly, The passage of the Animal Spirits to the parts of the body may be so hindered by a simple Distemper in cold and moistness, that the Native temper of a Nerve, and the heat in it may be destroyed, and the Animal Spirit not perform his office; for the heat of the Animal Spirits must be joyned with the Natural heat of the part for the performance of its Office.

There is a Controversie whether other Humors may be the cause of a Palsy, which we will not omit, though they are very seldom mentioned by others.

Trallianus in his First Book, Chap 6. Reports of a certain man that fell into a Palsy through sadness and grief, and after taking *Hiera* he became immovable without motion, and had died if he had not used all moistning things for his Meat and Drink, and other things to bring him to a temperate condition,

condition, especially many Baths and oyntments of *Hydredanum*, that is, of water and oyl beate together.

Paulus in his Third Book, Chap. 28. and 43. talks of a Palsey which came of a Cholerick Cholick; which is cured by cooling means: and in our time the Cholick of the People of *Poitiers* in *France* is very remarkable, for it turns for the most part into a Palsey; and all men of understanding acknowledg it to proceed of a Cholerick matter, of which I shall speak more at large in my Treatise of the Cholick. An Example is given by *Forestus* in his 97. Observation, and his Tenth Book, of a young man who had an extenuation for want of nourishment in his Limbs; and when he grew worse by hot and dry Medicines which Physicians prescribed for him, was at last restored only by the taking and applying of moistning Medicines.

And Reason doth clearly shew this; for Choler, Melancholy, or any other humor falling upon the Nerves: if they fall upon them inwardly, they may stop the insensible passages of the Nerves, or if they fall upon them outwardly, they may so press upon them that they may bring a Palsey. Nor do the Reasons which *Rondelitus* gives to the contrary any way convince, when he saith, That Choler and Melancholy do rather dry than soften and mollifie the Nerves; and Choler is more likely to produce a Convulsion by his sharpness and griping, than a Palsey: For although commonly a Palsey be called a resolution and softning of the Nerves, which is always in a Palsey, that cometh of flegm, yet it is not requisite that a resolution of the Nerves should be in every Palsey, because it comes more properly and essentially from a stopping and hindering of the passage of the Animal Spirits, which when it may be caused by a compression or straitning of the Nerves, and the like, it doth not always proceed of softning and mollifying. But the opinion of a Palsey coming from a relaxing and softning of the Nerves came from hence; namely, Because the parts which have the Palsey being not able to be stretched forth, seem as it were to be relaxed and softned: for the motion of parts is by the extension or stretching forth of the Muscles, and by contraction or drawing together of the same to their Original; which extension when the parts do want, they are said to be relaxed, although they have neither been extraordinarily moistned nor softned.

Moreover, Since there are divers sorts and degrees of Choler, it is not necessary that every sort should have such acrimony and sharpness as is able to beget a Convulsion.

Furthermore, There is a various mixture of Humors and Flegm, or Water may be mixed with that Choler which produceth the Palsey, and so temperate or mitigate his sharpness. Such a mixture doth often happen in Bastard Tertian Feavers, which are probable to be those which *Fernelius* saith, turn into Palseys.

Finally, This is very manifest from the Scorbutick Palsey, or that which is joyned with the Scurvy, which hath often a Convulsion accompanying it (as *Galen* in many places, and *Sennertus* in his Book of the Scurvy, the fifth Chapter:) And albeit a true Scorbute or Scurvy is seldom seen in our Country, yet we often see certain Scorbutick Infirmities, in which some symptoms of the true Scorbute do evidently appear. And therefore in our 74. Observation, and the first Century, and in our 98. Observation, and in the second Century, were given two Examples of Scorbutick Palseys accompanied with Convulsions.

There may be divers other Causes of a Palsey which are little observed.

As first, A cold and moist distemper simple and without Matter, may by congealing of the Spirits, not only hinder their passages and influence upon the parts, but also by destroying the temper of the Nerves, make them incapable of receiving the Animal Spirits, whereby they have Sense and Motion: and this cold and moist distemper from over-coldness of the Air, or from the touching of a cold thing, as *Galen* teacheth 4. de Loc. Aff. Chap. 4. Of a certain man who (when in a cold season and a great storm, he had wrapt his wet Cloak a long time about his Neck) fell into a Palsey in his hand, the Nerves which come from the Neck and Marrow of the back-bone, being thereby made too cold and moist.

Some of our late Writers have reported, That a Palsey may be procured by a stupifying or numbing quality, which is inherent in some Medicines and Poysons, sometimes in the Humors themselves. And hence they say comes that Palsey which is caught by touching the Torpedo or Cramp-fish: but it is not so much to be termed a Palsey which cometh by that way, as a Stupor, or stupifaction and numbness; such like as that which Goldsmiths and Gilders have often by the touching and much using of Quick-silver, and Looking-glass-makers also, which is often seen in *Venice*. And *Platerus* supposeth, that Wine by a narcotick or stupifying quality begets Palseys and Numbness: although others differ from his Judgment, yet *Fernelius* seems to favor his opinion, affirming in the place above-cited, that he once saw a man whose skin by gluttony and drunkenness was all over stupified and insensible. And *Petrus Fabius* in his Notes upon *Altimar*, Chap. 14. relates a Story of a certain Barbar, who after he had been strongly tipling of Wine awaked at Mid-night, and fell suddenly into an universal Palsey of all the parts of his body beneath his face, so deprived of Sense and Motion, that he felt not when he was cut and scarrified with a knife, nor when he was pricked deeply

with Needles : But his Surfeit and drunkenness being past, he was cured in the space of three days, only by Revulsions, and resolving ointments applied to the back : Notwithstanding this Author doth not impute this Palsey to the narcotick or stupifying quality of the Wine ; but to those gross Vapors which arose from his Surfeit, and stopped the Nerves, and this cause may be accounted among others that produce this Disease.

We have shewed in our Treatise of sleeping diseases, that there is a stupifying quality in corrupt and malignant humors, which being carried to the Nerves, may hinder their actions : and since the humors which produce the Scorbute have a venemous and malignant quality, they may also have a stupifying force which may cause also a Palsey with the Scorbute, or a Scorbutick Palsey, although (as we said before) an obstruction or stopping or pressing of the Nerves, may be sufficient to cause a Palsey alone.

Moreover, Tumors growing by the Back-bone and its Nerves, may without doubt cause a Palsey by pressing upon the Nerves.

So the cutting and pricking of a Nerve may produce the same effect.

The dislocation, luxation, or making loose of any of the Back-bones, or other Joynts, may cause the same by pressing upon the Nerves.

And lastly, The Condensation or thickning of the Nerves, may hinder the influence and passage of the Spirits, which comes either by too much exsiccation or drying, or of a gross earthly humor, which is taken into the substance of them.

So in those that have the Leprosie called *Elephantiasis*, the sense and feeling of many parts is lost by reason of their growing too thick and hard, by an earthy and gross nourishment which they receive.

The causes of different Palseys are these : In a perfect Palsey, which supposeth a perfect privation of both Sense and Motion, there is more plenty of the matter, which causeth it by a general obstruction, or stopping and binding of the Nerves. But in an imperfect Palsey there is less matter to stop and bind the Nerves, whereby it comes to pass that the passage of the Animal Spirits is not altogether so closed up, but it will suffer some portion of them to have their recourse.

Sometimes the motion is hindered, and the sense not ; because there is more vertue to cause motion, than to cause sense or feeling, in regard feeling is a kind of passion ; but motion consists altogether in action. Sometimes the sense is hindered, and not the motion, for in some parts of the body those Nerves and their branches which serve for sense, do not serve for motion : as those Nerves which are in the skin, if they only be hurt, the sense only is hurt, which is seen in a particular Palsey which is in one part only of the body : But if the chief Nerves which are carried to the Muscles be hurt, the sense cannot only be hindered, but the motion also.

DIAGNOSTICK. The Diagnosis or knowledge of this Disease is directed to three things ; namely, the kind or sort of the Disease to the part affected, and to the cause that produceth it.

We may easily know what kind of Palsey it is, because the want of motion and the privation of sense are to be discovered by the eye.

It is harder to know the part affected, but it is found out by the knowledge of Anatomy, which declared the Original and joyning of the Nerves.

For if the right or left side of the face hath the Palsey, and no other part be hurt, the Brain is only hurt in that part from whence the Nerves are brought that come to those sides of the face : But if the parts under the Head be hurt, together with the face, then it is a sign that the Back-bone is hurt as well as the Brain ; and if the parts beneath the Head are hurt, and not the face, the fault is only in the Back-bone : If half the body have the Palsey, only one half of the Back-bone is affected ; but if the whole body suffer, then is the Original of the Back-bone hurt. When the Palsey is in the Legs, the part affected is about the bottom of the Marrow of the Back, and the *Vertebrae* or turning bones of the *Os Sacrum*, and so we must search out for the place whence the Nerves spring, which are brought to that part which is troubled with the Palsey.

Sometimes also the searching into the outward Cause doth much avail for the knowledge of the part affected : Two Examples whereof are brought by *Galen*, one whereof we mentioned before out of his Fourth Book, *de loc. affect.* cap. 4. Concerning a man in a cold stormy time wrapt his wet Cloak so long about his Neck till he fell into a Palsey in his hand. Another is in the First Book, *de loc. affect.* chap. 5. of *Pausanias Syrus*, who lost the sense of three fingers ; and when *Galen* understood that he fell from his Chariot upon his Back, he concluded that some part was hurt in the Original of that Nerve which comes from the seventh *vertebra*, or *Spondil* ; therefore (after he had in vain applied Medicines to the fingers) he used means to the Back, and so wrought a brave Cure.

The Diagnosis or knowledge of the Causes of this Disease is fercht from the primary Causes, the Diseases aforegoing, and the temperament and constitution of the sick party : and therefore when external cold Causes and moist went before, when the Patient is old, when he is flegmatick of constitution, the weather cold, diet cold and moist, and an Apoplexy hath formerly been, it signifies that

that a Disease is approaching from a cold Distemper and Flegmatick Humor.

SIGNS. But when a Palsy is caused of a Cholerick Humor or Melancholy, these signs declare, Feavers did go before, or are present, a cholerick temper and constitution, or else a Melancholy one; the coming of the Disease in hot weather, Summer or Autumn; the use of Spices, Salt and other hot Meats; heavy and long passions of mind, a voiding cholerick and melancholy humors, sharp and sour; many sharp defluxions falling upon divers parts, and putting them to pain: And lastly, When pain and a Convulsion accompany the diminishing sense and motion, and the Patient is the worse when he takes hot and dry things, but the better by the use of cold and moist.

When Tumors, Luxations, or Dislocation, or Wounds cause a Palsy, they are evident of themselves.

PROGNOSTICK. As for the Prognostick part in the Treatise of this Disease, you may fore-tell Events as followeth:

1. A Palsy coming of Flegm fixed to the substance of the Nerves is hardly cured, because it will not be easie to discuss or divide the flegm from the Nerves by reason of their coldness and their weakness in expulsion or sending forth of that which offendeth, which must co-operate or work together with the Medicine, and in regard of a deep situation of the Spina and Nerves, so as the whole force of the Medicine cannot reach them, and because the Patient must of necessity continue long in the use of Medicines, which for the most part people cannot endure, and therefore will not be cured.
2. A Palsy coming after an Apoplexy is seldom cured, and often returns into an Apoplexy, by a new flowing of the same matter into the Brain, which is made weak by the former Disease.
3. A trembling coming upon or after a Palsy is healthful, for it signifieth that the passages of Nerves are somewhat open, by which some of the Animal Spirit beginneth to pass, for to move the Muscles.
4. If the part affected hath an actual heat in it, there is hope of health, but if it be always actually cold, it is difficult to be cured.
5. An Atrophy, or want of Nourishment in the Paralytick part, with great paleness, takes away all hope of Cure; for it doth not only signify a decay of the Animal Spirit, but shews a near extinction of the natural heat.
6. If the Eye on that side on which the Palsy happeneth be hurt thereby, there is little hope, for it argues a great want of Spirits in that part.
7. A Palsy in the Legs and Feet is easier cured than in the upper parts, because those Nerves are harder and stronger.
8. In old men the Palsy is incurable, by reason of their natural want of heat.
9. In Winter a Palsy cannot be cured, but in the Spring and Summer it may, if other things agree.
10. A strong Feaver coming upon a Palsy is good, for it may consume the matter which causeth it.
11. A *Diarrhœa*, or looseness coming upon a new and weak Palsy is good, for *Rhasis* saith,

1. *Cont.* That he hath seen many Paralyticks cured by a *Diarrhœa*.

CURE. The Cure of this Disease is to be altered according to the variety of the Causes: And since for the most part it cometh of Flegm and a cold Distemper, we must labour chiefly to take away that Cause, which we must begin to do by a general cleansing and emptying of the whole body.

As for bleeding it can scarce do any good, because the fault is not in the blood, but flegm, and this Disease comes for the most part to old men, such as are flegmatick and cold by nature. But if plenty of crude blood unconcocted seems to produce flegm, and to feed it, we may open a Vein in his Arm on the sound side of his body, but take little blood lest his weak natural heat should be extinguished.

After we have omitted Blood-letting, or taken very little away, we must go on to take away the Antecedent Cause, which is a cold distemper of the Brain, which must be done as before was shewed by Apozems or opening Drinks, by Pills, Sweating, Diet, Bags for the Head, Emplasters, Erhines for the Nose, Neefings, Masticatories, Gargarisms that draw flegm, Vesicatories, or Blisters, or Cupping head-powders, Caps, Fums, Magistral Syrups, ordinary Pills, a strengthening Opiate or Electuary, by Caustick or burning, by digestive Powder and Baths.

A Diet-drink in this Disease ought to be made of Guajacum alone and his Bark, and after he hath taken a draught, he must have hot Bricks applied to the diseased parts, but first they must be quenched in a Decoction of this, good for the head made with White-wine and Vinegar, and be wrapped in a Linnen-cloth, for the stirring up of the weak heat which is in the parts, and every fourth or fifth day you must purge; but it is better to give a Purging-drink fifteen days before you give the Sweating, that all the load of crude humors may be better cast out, and afterwards the reliicks and remainder may be discussed by the habit of the body; which may be thus made:

Take of the Chips of Guajacum three ounces, of the Bark of the same one ounce; of Spring-water four Pints: Infuse them twenty four hours: then let them boyl to the consumption of half, adding

ding in the conclusion one ounce of Senna; Turbith and Hermodacts, of each two drams. Let him take half a Pint of this strained every Morning for fifteen days, not sweating.

Apply a Caustick to the hinder part of the Head, or the sound Arm if the other be affected. If the Legs be affected, apply a Caustick to them both.

After his Diet, let him use for his ordinary Drink a Decoction of Guajacum, or water and Honey, wherein hath a little Rosemary been boyled. Let him abstain from Wine, which is very hurtful for this Disease; but if he desire to drink Wine, let Betony and Sage be boyled therein. And it is far better if in the Vintage-time those Herbs are put into a full Vessel of new Wine.

If the Disease be perverse and stubborn, omitting the usual Pills and Magistral Syrup; after his Diet use stronger Medicines made thus:

Take of Pill Fœtida the greatest, and Pill Cochy the less, of each half a dram; of Troches of Al-handal four grains: Let him take them once every week.

But because the humor must be prepared before every Purge, therefore for two or three days before he takes the Pills, let him take three or four ounces of this following water every Morning two hours before meat.

Take of the Chips of Guajacum four ounces, of the Bark of the same one ounce; of Sarsaparilla one ounce and an half: of China-root one ounce: of Saxaphras six drams: of Lignum Aloes, Galangal, of each one dram and an half: of the Roots of Angelica, Peony, and Fennel, of each three drams and an half: of Peony-seeds two drams: Infuse them for twenty four hours in six Pints of Water, and four pints of White-wine: After add the Leaves of Betony, and Ivy, and Sage, of each one handful; of the Flowers of Linden, Primroses, Stæchas, or French-Lavender, and Rosemary, of each two Pugils: of Lavender one Pugil: of old Treacle half an ounce: of Citron-seeds and Barks, of each two drams and an half: of Polipody half an ounce: of Cinnamon six drams. Distil them in Balneo Mariæ according to Art: and to every two pints and half of the Liqueur, put of Manus Christi prepared with the Oyl of Cinnamon, four ounces. Or instead of this water you may use the Opiate prescribed in the Chapter of the cold distemper of the Brain for the strengthening of the Head: but you had better use the Opiate of Montagnanus described in the Cure of the Epilepsis.

When other Purges do little good, it will not be amiss to come to the use of Chymical Vomits, if the Patient be strong: and they are mentioned in the Chapter of sleepy Diseases, for they draw the stubborn humors from the Root, and cure Diseases which cannot be rooted out with ordinary Medicines.

In the days wherein he takes no other Medicine, let him take the Cephalick Opiate mentioned in Chap. 1. or the Apoplectick Water, or Tabellers, or Lozenges, for sleepy Diseases formerly mentioned.

After Universal Medicines, we must proceed to Topical or Particular Medicines for the part, for the stirring up of heat, and recalling the Spirits, and for drying and discharging in the Spinal Marrow, where for the most part the Cause of the Disease lieth.

Therefore let the part affected be daily rubbed with warm Cloaths, but gently, lest that the Natural heat and Spirits drawn thither should be again dispersed.

Also let Cupping-glasses be applied to the heads of the Muscles of the part affected, and let them be narrow-mouthed, and applied very hot; but let them not stand on very long, lest they disperse too much. After apply a Plaister of Pitch, and the Rozin of the Pine-tree, that what is drawn thither may be preserved. Or rub gently the part benumbed with green Nettles, or lay on Sinapisms, or Medicines of Mustard, while the part begin to grow red; but you must not let them lie while they make Blisters, for so the Spirits and Blood would be dispersed, but only till the part made red will not grow white by the impression of the finger, but remain red still.

Afterwards anoint the part, and the Spinal Marrow with Oyls, Oyntments and Balsoms, of which there are many forms in Authors. The Balsom of Guido which is prepared by the Apothecaries, is excellent for this purpose. This we use alone, or mixed with other Medicines.

It is made after this manner:

Take of Oyl of Foxes, Earth-worms, and Castor, of each one ounce: of Guido's Balsom three ounces: of Aqua-vitæ half an ounce: of Oyl of Rosemary distilled, one dram and an half. Mix them for a Liniment. With which anoint all the Spinal Marrow very hot, and the part also resolved, covering them with warm Cloaths.

This following oyntment of Variola in his Observations, is much commended.

Take of Sage, Marjerom, Betony, Bays, Rosemary, and Primrose-leaves, of each one handful: of the Roots of Time, Acorus, or great Galangal, and Flowerdeluce newly gathered, of each three ounces: of the Oyl of Foxes, or Indian Nuts, and Rue, of each one pound: of Oyl of Turpentine half a pound: of the strongest Wine one pound: of Aqua-vitæ half a pound. Boil them till the Wine be consumed, then strain them, and add of Serapinum, or Sagapenum, Opopanax, and Bdellium,

Bdellium, of each two Drams : *Castor* half an Ounce : *Mace*, *Nutmegs*, *Styrax Calamita*, *Benjamin*, of each three Drams : long *Pepper* and *Pellitory*, of each one Dram : the Grease of an old Cat, of a Serpent, and a Goose, of each one ounce : the Marrow of an Oxe-bone two Ounces : the Juice of Dwarf-Elder, Sage and Balm, of each four Ounces : of the best Wax, or Bee-glew which the Bees make at the entering into their Hive to keep out the cold, two Ounces : Mix them and with a sufficient quantity of Wax melted into the foresaid Oyls, make them into the consistence of a thin Ointment, with which anoint all the Back-bone warm, laying soft Wooll or Linnen-cloth warm thereon.

But an Ointment of greater effect, and less trouble, is made in this manner.

Take of the Juice of Squils or Sea-Onions, four Ounces : the Juice of Cucumber and Rue, of each one Ounce : *Euphorbium*, *Castor*, *Sagapenum*, *Ammoniacum*, and *Bdellium* dissolved in Vinegar, of each one Dram and an half : *Myrrh*, *Frankincense*, *Pellitory* and *Nitre*, of each one Dram : the Oyls of Elder, Turpentine, and *Euphorbium*, of each half an Ounce : Wax as much as is sufficient : Make an Ointment.

You must chiefly use the Ointments in the time of his Diet, after the sweating is wiped off, and after the time of bathing, for then the Pores and passages of the Skin being open, do more easily receive the Ointment.

Let the Linnen-cloaths that are used after anointing be warmed with this Fumigation :

Take of Amber, Mastick, and Myrrh, of each one Dram : *Frankincense* two Scruples : Cloves, Nutmegs, Cinnamon, and Mace, of each half a Dram : Wood of Aloes half a Scruple : Powder them, and sprinkle them with the Spirit of Wine, dry them, and do so five times, and then make a Powder to be thrown upon Embers.

If the Disease do not yield to these, Cerats and Emplaisters must be laid to the Back.

Take of the Emplaster of Betony, Melilot, and Bay-berries, of each one Ounce : *Frankincense* half an Ounce : *Castor* and *Euphorbium*, of each one Dram : the Seeds of *Nigella* or Gith, the Seeds of Water-cresses and Mustard, the Roots of *Pellitory*, and of Sal Nitre, of each half an Ounce : with the Oyl of Bricks : Make them into the form of an Emplaster, which apply upon Leather.

But this following is better.

Take of Pitch, Galbanum, Sagapenum, and Ammoniacum, of each one Ounce : *Pellitory*, and Mustard-seed, of each half an Ounce : *Euphorbium* two Drams, yellow Wax three Drams : With as much Oyl of Turpentine as is sufficient, make a Plaster.

You may also provoke Sweat in the part, by the fume of the Decoction of Herbs and Roots proper for the Head boyled in White-wine, which you must do by putting it into such a Vessel as the Patient being fasting may sit so covered over it, that the Water may not touch him but the Vapor onely. Or you may sweat him with a dry Bath, commonly called *Stuphes*. Let the Vapor of the former Decoction be received from red hot Flints; upon which it hath been sprinkled.

A Decoction of Burdock and other Dock-roots is much commended for provoking Sweat : But our Women use the Decoction of Danewort, called *Ebulus*, for this and Diseases of the Joynts, by which they provoke Sweat violently.

When the Patient hath sweat enough, get him to bed, and give him one Dram of Treacle with any proper Water distilled : He must bathe thus twice or thrice in a Week. In Autumn he must hold his Limbs in the hot Grapes, or Wine-press an hour or two, and afterwards anoint them with a proper Ointment before mentioned : this is to be done all the time of the Vintage.

Lastly, Sulphur or Brimstone, bathes of Niter and Bitumen before mentioned, are very agreeable, and many times go beyond all other Medicines: if the Patient use them some dayes for drink, bathing and washing the Head, after that anoint it with one of the Liniments prescribed.

The Chymists have many Remedies for the Cure of this Disease ; among which, the best are *Elixir Proprietatis*, Spirit of Tartar, and Balsom of Galbanum.

All the time of the Disease, let the parts affected be wrapt in the Skins of Foxes, Hares, or Lambs.

A Palsy which comes from Choler or Melancholy, requires the same Cure which is prescribed in the Cure of Hypochondriack Melancholy; but when the Disease is more Cholerick, you must make choice of those Medicines which are more cold.

CHAP. VI.

Of a Convulsion.

S*pasmus*, Cramp or Convulsion is an involuntary and continued retraction of the Nerves and Muscles to their Original.

D I F F E R E N C E S. Convulsion is twofold; The one Proper, to which the Definition mentioned agreeth: The other Improper, which is called a Convulsive Motion; and they are thus distinguished: In a true Convulsion, the Retraction of the Muscles is always, but in a Convulsive Motion, the Retraction is every time new. Moreover, in a true Convulsion the Limb is immovable, in a Convulsive Motion it is moved divers ways, as in the Falling-sickness, which is the chief Convulsive Motion.

C A U S E S. They differ also in respect of their Causes; for a true Convulsion is either from Fulness or Emptiness; but a Convulsive Motion is from Irritation or Provocation. Lastly, they are distinguished, in that the true Convulsion comes from the Disease onely; the Convulsive Motion from the Faculty alone: Which, that Novices may rightly understand, they must know that *Galen* in his Second Book, *de symp. caus.* Chap. 1. hath thus distinguished the Symptoms of a depraved Motion: Some (saith he) are onely the work of Nature, which is constrained to move from some violent Cause; Others accompany Diseases, Nature not assisting their production; Others are by the agreement and concurrence of Nature and the Disease. Now *Galen* by the name of Nature, understands Faculty; the Operations of the Faculty are Neesing, Coughing, Yawning, Reaching, and Hiccoughs: but the Operations of the Disease onely, is Palpitation and Convulsion: but the Operation of both the Disease and Faculty, is Trembling and imperfect Palsey, or Resolution.

From *Galen's* words above-mentioned, there ariseth a great difficulty, when he mentions the Hiccoughs in the operation of the Faculty; for it continueth by Irritation or Provocation, and is a Convulsive Motion: but *Galen* recites a Convulsion among those Operations which come onely from the Disease, Yet *Hippocrates* in his Aphorism 39. and Sect. 6. affirmeth, *That the Hiccough and Convulsion come of Fulness and Emptiness, and Repletion and Inanition, or Fulness and Emptiness make onely a true Convulsion.* For the resolving of which Difficulty, we say, that the word Repletion or Fulness, in its large sence comprehends Provocation, according to many Authors, because the provoking Causes are material, and therefore do in some sort fill the parts in which they are contained; but thus Repletion is not the immediate Cause of Hiccoughs, but the mediate, because it doth provoke the part in which it is, to Expulsion by its quantity or quality.

Lastly, We must know and observe, *Hippocrates* and *Galen* do declare a Convulsive Motion by the general name of a Convulsion, so that they cannot be distinguished but by the Differences mentioned.

Again, A true Convulsion is divided into a total one, by which almost the whole body is contracted, and a partial one, which is onely in some one Member.

An universal or total Convulsion is caused either from the Brain, when the Muscles of the Face are pluckt together as well as the whole Body: Or from the Spinal Marrow, when the Muscles that move the Head, and Spina or Back, either before or behind or both, are pluckt and drawn together. Whence arise three kinds of Convulsions: The first called *Emprostotonos*, when the Body with the Neck and Head is violently contracted and drawn forward, so that the Chin is joyned to the breast, and the body looks like the Keel of a Ship; nay, it is sometimes like a Bow and sometimes round, and the Head of the Patient is joyned to his Knees, and then the two Muscles which bend the Head forward are chiefly affected. The second is called *Opisthotonos*, when the body is drawn backward, and in that either the twelve Muscles which extend the Head, or some of them are drawn together. The third is called *Tetanos*, when the Muscles both before and behind are equally contracted, and the Parts drawn by the opposite Muscles being ballanced remain stiff and straight, and that is called *Motus Tonicus*, which is a most violent Convulsion springing from the contention of all the Muscles.

A particular Convulsion is made from the Contraction of the Muscle of some part coming from the hurt of the Nerve which is ordained for his motion, and sometimes it hath a peculiar Name from the Effect or Symptom: So the Convulsion of those Muscles which move the Eyes, is called *Strabismus*: or the Jaws and Temples, is called *τρεῖς*. The Convulsion of the Mouth by Contraction of the broad Muscle on the one side is called *Spasmus Cynicus*, a Dog-Convulsion, and a wresting of the mouth; but if the Contraction be on both sides, it is called *Risus Sardonicus*, or a grinning. But the wriness of the Mouth may be without a Convulsion, namely, from the Resolution of one Muscle, which being resolved, the Muscle on the other side draws it to the sound part, and there is a distorti-

on or wryness, which is improperly called a Convulsion. The Convulsion of the Muscles of the Yard is called *Satyriasis* or *Priapismus*. Other Convulsions want proper names.

But the immediate causes of a Convulsion according to the Opinion of *Hippocrates* and *Galen*, are Repletion and Inanition, or fulness and emptiness above mentioned. And this Opinion is confirmed by the example of a Lute or Harp strings, which use to be stretched; which instance *Galen* doth bring most elegantly in his Book of Palpitation, of trembling and shaking, Chap. 8. and this third Book of Parts affected, Chap. 6. and his Second Book of the Causes of Symptoms, Chap. 2. and his Comment upon *Aphor.* 39. Sect. 6. For saith he, while the strings are moist and filled with humor, as it falls out when the wind is Southernly, they are stretched and so broken; and when they are over-dry, as it happens in Northern weather, they are contracted, and also broken. So the Reins of a Bridle drying too near the fire, are contracted when they were before extended with too much moisture: the same befalls the Nerves, which being either too full of moisture or too dry, are stretched and contracted: and the Muscles into which they are united, are so drawn back to their principal or original, from whence all the body hath a Convulsion.

The Mediate Causes of a Convulsion, which make Repletion or Emptiness are divers. And first the Causes of Repletion are recited by *Galen* in his Book Of Trembling, Chap. last, to the increase of flegm and Inflammation, a waterish humor flowing to the Nerves is supposed to stretch them in their breadth, which must needs make them shorter.

But here is a very great difficulty which is propounded by divers Authors, but is resolved perfectly and plainly by none: namely, what difference there is between the cause of a Palsey, and of a Convulsion, when both come from a water flowing upon the Nerves: why that matter which makes a Palsey (which so fills the Nerves that it stops all their passages or pores, whereby the Animal Spirits are hindered in their motion) doth not also stretch the Nerves in breadth, and cause also a Convulsion; and why the matter causing a Convulsion, filling the Nerves, doth not also stop the passages, and cause a Palsey, when contrarily in a Convulsion the feeling remaineth, and the part affected for the most part is very much pained? For the resolving of this doubt, Authors are much divided; and the most ingenious of them all, confess that it is beyond their capacity. Most witty *Averroes* considering of this point, breaks forth in this expression; *I would I knew the reason* (saith he) *why the Nerves are extended in their breadth, and not in their length.* And presently after he saith; *Know ye that the words of all Physicians that write of this Symptom, are more proper to Fiddlers and Singers, than to Demonstrators, or such as should make things plain.* And ingenious *Argenterius* in his Comment upon the 26. *Aphor.* Sect. 2. speaks thus; *It is not easie to render a reason of all things, and especially why water which is said to be the cause of the Palsey, or resolution of Nerves, and of the Convulsion, should sometimes bring one, and sometimes another, when it is the same matter, and the same parts are affected, namely, the Nerves; why should not the same Disease be always produced?* Thus *Argenterius*. The great difficulty of this matter hath distracted all Writers into divers Opinions, so that some have left the Doctrine of *Hippocrates* and *Galen*, among whom are *Averroes*, *Erastus*, *Platerus*, *Cesalpinus*, *Sennertus* and others, whose divers Opinions, and long Disputations we cannot attend to repeat, for we desire to be very short, and lay aside all Controversies, only adhering to those things which are most necessary to Cure. The Opinion of the soundest Writers, which are unwilling to dissent from *Galen*, comes to this, That a Convulsion is caused of a thick matter, which extendeth the Nerves in their breadth, and contracteth them in their length; and that a Palsey comes of a thin humor which runs through the substance of the Nerve, and softneth it, but doth not open the pores and passages. But this doth not satisfy a Soul that is greedy of truth: For if a thick humor by filling the Nerve doth stretch it broader, why doth it not also fill its pores, and stop the insensible passages and hinder the coming of the Animal Spirit, and so bring a Palsey? and why doth not a Convulsion follow a Palsey in process of time, when a thin humor long sticking upon a part, must needs grow thick, even as the serous matter which makes the *Arthritis*, or Joynt-Gout by long continuance upon the part, causeth the matter which makes the stone. Others say, That in a Convulsion, only the external part of the Nerve which is membranous and tender, is possessed with the humor; but in a Palsey, the internal; But this giveth less satisfaction: For when the Nerves are for the most part slender, it is not easie to conceive how the humor should only possess the external part, and not the internal; or the internal, and not the external: Or leastwise (if this could be so) a Convulsion would follow a Palsey, and a Palsey a Convulsion, by the increase of the matter; and that which at first did only possess the outward or the inward part, in process of time would seize upon the whole Nerve.

Therefore we, although we cannot satisfy our selves in this great difficulty while better Arguments are propounded, suppose that those Objections may be taken off thus; A Convulsion and a Palsey differ in this; A Palsey is made of a pure watery humor without mixture, which doth not extend the parts, but softneth them, as we may see in the Tumor called *Oedema*; but a Convulsion is caused of the same humor, but not pure and simple, but mixed with much wind, by which wind the

Nerves are stretched, and the Muscles also which are contracted to their Original: For no cause can be thought upon more fit to make so great a contraction, than wind, which *Galen* acknowledgeth in his Second Book *de sympt. caus. chap. 2.* and experience teacheth us, that the greatest distensions are made especially by wind, as we may see in the Droply called *Tympanites* and the Cholick. And in Convulsions these are the greatest which are caused of wind, which stretcheth and distendeth the parts. By this Argument, all the aforesaid Objections are answered: For if it be demanded, Why the Flegm or water which maketh a Convulsion, doth not bring a Palsy by hindring the passage of the Spirits? We may answer, That it is in so small quantity, that it cannot stop the insensible passages of the Nerves, and that it is so extenuated and made thin by much wind, that it cannot produce a stoppage or Obstruction. Or we may say that wind is the chief cause of Convulsions, which *Galen* acknowledgeth in the place mentioned. And in his 6 Book, *de loc. affect. cap. ult.* he makes the only cause of a *Priapism* (which is the Convulsion of the Yard) to be wind.

The other cause of a Convulsion coming from Repletion, which *Galen* mentions in the place cited, is the Inflammation of the Nervous parts, especially in the Original of the Nerves, or near to its original, by which they are stretched; and that Inflammation is either from a cause only internal, namely, from a flux of blood upon the part; or of an outward cause, as of a wound, contusion or bruise, or a puncture of a Nerve.

The Causes of a Convulsion by Emptiness or Inanition, are all extraordinary or immoderate Evacuations, by bleeding at the Nose, or any outward part, by vomit, flux of the belly, or sweat as also all great Consumptions of the Radical moisture which happen in strong Feavers, immoderate exercise, watchings, cares, immoderate Lechery, hunger and thirst, and the daily use of Food and Medicines which heat and dry.

This kind of Convulsion from Emptiness is rejected by many; who suppose that so great a drought cannot be brought into a living body, as may contract the Nerves; but that is usual in a Hectick Feaver, or a *Marasmus*: These men are thus answered: Every emptiness or dryness cannot make a Convulsion, but that which is made suddenly and unequally; by which means there is a sudden Evacuation or Emptying of the Radical moisture, which makes the parts cling and close together for the avoiding of a *Vacuum* or emptiness which Nature abhorreth; but if the moisture be equally drawn from all parts, and by degrees, there is no contraction, because the parts made empty are filled with Air.

A Convulsive Motion, is of a sharp pricking matter which provokes the Nerves; and it is for the most part, a humor or vapor full of acrimony or malignancy; this comes often in a malignant Feaver: These Convulsive Motions are caused for the most part from the Brain and Nerves, suffering by sympathy or consent, and then it is called *Convulsio Sympathica*. And this Sympathy is either by their plain suffering together in respect of their likeness in substance and office, and their vicinity or nearness; or from an evil quality, or poysonous air sent to the original of the Nerves. And it is often caused by consent from the mouth of the stomach through an æruginous or rust-like Choler, through worms, poyson or other sharp matter which gripeth; and also from consent with the womb, as it happeneth in Hysterical passions, or the Mother.

DIAGNOSTICK. The Diagnosis or knowledge of a Convulsion is easily learned from those things which we propounded in the beginning of this Chapter: For in a true Convulsion the part is contracted, stiff and unmoveable, that it cannot be bent at the pleasure of the Patient; but in a Convulsive motion the part is shaken and tossed hither and thither.

PROGNOSTICK. As to the Prognostick; A Convulsion which is in many parts, especially those near the Brain is dangerous; as also that which is in the Muscles of the Breast, which giveth us to fear a suffocation, by reason of the shortness of the Patients breathing.

A Convulsion coming of too much bleeding or purging, is deadly, as *Hippocrates* saith in his *Aphorisms*: for as *Galen* sheweth in his *Comment*, that such a Convulsion comes of emptiness; but it may so fall out as it may come of irritation or provoking by the motion of sharp and cholerick humors to the Nervous parts, or of the malign quality of a venomous Medicine, as it happens after the taking of Hellebore.

A Convulsion from a Frenzy is deadly. *Actius* affirmeth, That he never heard of, nor saw any so taken, that recovered.

It is better that a Feaver follow a Convulsion, than a Convulsion a Feaver, *Aphor. 37. Sect. 2.* for a Feaver coming upon a Convulsion, takes away its cause; but a Convulsion coming upon a Feaver, shews a malignant matter which threatneth death.

Whosoever are taken with the *Tetanus* or Cramp so called, die within four days; but if they continue longer they are cured, *Aph. 6. Sect. 5.* for that the great stretching of all the Muscles hinders breathing, so that they are suffocated. And we must observe, that a Convulsion is not the cause of death in respect of what is done to the Nerves; for a Palsey coming of the like cause continues many years; but in respect of the suffocation it brings by the Convulsion of the Muscles ordained for breathing.

The

CURE. The Cure of this Disease is divers, as the Cause is divers.

That which comes of Emptiness is seldom, and incurable, therefore we shall not insist upon the Cure of it. Authors do prescribe all kind of moistening Medicines, and opening ointments. That which comes of provoking or irritation, is from other Diseases, and is comprehended under the Cure of them. It remains therefore that we treat of the Cure of a Convulsion by Repletion, which when it comes of Flegm and Wind, must be cured by removing of them. This is done first by blood-letting if it abound, and the party be strong; but it is better to take too little than too much; for blood is an Enemy to that principal Cause, which is Flegm.

After blood-letting, or being omitted if need do not require, you must purge with Pills which are strong (but have an eye to the Patients strength) according to those forms in the first Chapter, you must add to them three grains of Castor.

If the Patient will not take Pills, he may take Potions, Powders, and other Medicines prescribed in the first Chapter.

After purging, if you have not let blood before, apply Cupping-glasses with Scarrification, otherwise without: first to the remote parts, then to the parts near the part affected. But if the Thighs or Legs have a Convulsion, apply them to the Buttocks and Loins: if the Arms, to the Neck and Shoulders, labouring always to bring the humor back to its original.

You may also with profit apply a Veficatory to the parts opposite to that which is affected.

After the first purging, the matter is to be prepared with an Apozeme, prescribed in the Cure of the cold distemper. Make it purging, if strength and other things will permit; otherwise leave out the Purgatives.

The Apozeme done, give him Pills again, putting Castorium to them, and to all his Purges.

If you use only an altering Apozeme, which changeth the humors, you must in that time give several sharp Clysters, such as are prescribed in the Chapter of sleeping Diseases.

Also anoint the part with this Liniment.

Take of Ointment of Marsh-mallows six ounces; Oyl of Turpentine and Camomel, of each one ounce; Oyl of Spike three drams; and of Foxes half an ounce; Liquid Storax two ounces: Anoint the part and Back-bone often therewith.

Take of Oyl of Dill, and Chamomel, of each one ounce; Unguentum Martiatum half an ounce; Oleum Petroleum and Spike, of each one dram; Spirit of Wine three drams.

Ducks or Goose-Grease prepared as followeth is much commended.

Take a Goose or Duck that is fat, pluck it and draw it; then fill it with these things following:

Take of Sage, Marjerom, and French Lavender, of each one handful; Gum Ammoniacum and Bdellium, of each one ounce; Calamus Aromaticus, Nutmeg, Mace, and Cloves, of each half an ounce; Beat them in a Mortar, and moisten them with the Oyl of Earthworms; after, put them into the Belly of the Goose sewed well together, and roast it upon a Spit. Receive the Dripping into a Vessel half full of Vinegar, and anoint with it.

But it is stronger thus:

Take of the Dripping aforesaid six ounces; the Chymical Oyls of Wax, Nutmeg, and Sage, of each two drams.

After you have anointed, you must cover the part affected with a hot Sheep-skin; and when it is cold, if you have not a fresh one, make it warm again with oyl of Dill; or the like hot oyl.

We apply successfully to the part affected, the hot Lungs of a Sheep, as also young Pidgeons, Whelps and Chickens slit in the middle.

Put the part affected into an Oxe or Sheeps Belly, or other great Creatures newly killed, and let it remain there while it is warm.

Baths of Head-herbs are good, putting to them a third part of oyl, or anointing afterwards.

Some commend this Emplaster:

Take of Colophony two ounces; Rozin and Pitch, of each one ounce; Frankincense, Mastich, Ceruse, of each half an ounce; Sanguis Draconis, common Salt, Ammoniacum and Turpentine, of each two drams; new Wax two ounces, white Vitriol two drams, Mother of Pearl two ounces, Load-stone half an ounce, yellow Amber one dram and an half; Oyl of Eggs and Roses, of each two drams. Make a Plaster upon Leather.

Baths coming of Brimstone are excellent, especially in constant Convulsions. Also dry Baths of the fume of the Decoction of Sage, Rosemary, Stoechas, Chamepitys, or Ground-pine, Origan, and the like, in white Wine sprinkled upon the stones fire-hot, or Iron.

It is very good to foment the hinder part of the Head and the Neck with hot *Aqua vite*.

Penotus doth wonderfully extol the following Medicine for quite curing of a Convulsion.

Take Oyl of Turpentine half an ounce, Oyl of Cloves six drops, of the Mucilage or slime of Briony, so much as is sufficient to make a Liniment. Anoint the part affected, and the root of the Nerve which comes unto it.

Others say, they quickly cure a Member with the oyl of Turpentine, of Wax, Chamomel, and the like, mingled with the Spirit of Salt.

The following Liniment is very powerful:

Take old Butter, and Bacon, of each a quarter of a pound; Bdellium, and Ammoniacum, of each one ounce; Myrrh, and Castor, of each two drans; Stœchas and Rosemary flowers, of each one pugil: Nutmeg and Cloves, of each one dram; a Kitten or young Cat, flead, bowelled, and cut in pieces. Stuff a Goose with these, and roast her; cast away the first dripping which is watery, the next which is fatty receive in a Vessel half full of Vinegar. Anoint the parts affected, and the Back-bone therewith.

Sometimes the pain is so intolerable that it must first be cured: For which this is good;

Take of Oyl of Violets, Lillies and Chamomel, of each an ounce and an half; Oyl of sweet Almonds, Mastic, and Roses, of each one ounce.

If you will have stronger, make this Bath;

Take of Marsh-mallow Roots, and Lillies, of each one pound and an half; of the Leaves of Origan, Violets, Mallows, Sage, and Wormwood, of each two handfuls; Linseeds, and Fenugreek, of each one pound: Boyl them for a Bath, in which let the party sit not long, but come out as soon as he finds ease: It is sufficient if the parts affected be only bathed therewith.

Others make Baths only of Oyl, and if the Patient be rich, then boyl a Fox or two in it.

While these are doing, purge the Head with neefing and chewing described in the first Chapter.

As also you must strengthen with the Cephalick or Capital Opiate, Apoplectick water, Treacle, and the like.

Rondeletius speaks thus of his water of Swallows; A water made of Swallows and Castor, presently cureth a Convulsion coming of Repletion: You may find the description of it in his Chapter of the Epilepsie.

CHAP. VIII.

Of the Epilepsie, or Falling-sickness.

THe Epilepsie is a Convulsion of the whole body, not continually but by Fits, with a hinderance both of the Mind and Senses.

The word Convulsion, is not here taken properly and strictly for a true Convulsion; but improperly, for a Convulsive Motion: For an Epilepsie is a Convulsive Motion, not a true Convulsion. But we keep the name of Convulsion in imitation of Galen, who calls an Epilepsie always a Convulsion.

DIFFERENCES. This Definition is taken out of Galen, 3. de loc. aff. cap. 7. and lib. de diff. sympr. cap. 3. and defines a perfect Epilepsie, in which all the body is contracted, and all the Senses both internal and external are abolished. Yet there are imperfect Epilepsies, in which only the Head, or Arm, Leg, and Thighs or half the body is only contracted. There is also an Epilepsie in which the mind remains sound, and the external Senses, and also the voluntary motion of some parts. I saw a Nun, which in her Epileptick Fits had divers contractions, sometimes of the Arms, then of the Legs, sometimes of the Head, afterwards of the whole body; yet she saw those that stood by and spake, nay, she also endeavoured a voluntary motion against the Convulsive, so as she did in a manner diminish the involuntary motion: sometimes she was in a small fit only, and walked about her Chamber, but with a disorderly motion, leaping and using strange antick postures, by which she caused the rest of the Nuns to be very merry, and she at that time laughed with them, and spake when she pleased.

CAUSES. Every Convulsive motion (as I said in the former Chapter) cometh of provocation, which proceedeth from the quantity or quality of the matter. The quantity of the matter which causeth the disease, burdening Nature, stirs her up to expel that which is troublesome to her. Whence the Opinion of Galen is confirmed, which is so disputed by late Physicians, that an Epilepsy comes of an imperfect obstruction of the Ventricles of the Brain; for if the humor obstructing or stopping is burdensom to Nature, the Brain will labour to expel it. In the quality there is no difference, for all agree in this, That the expulsive faculty is stirred up by sharpness and acrimony, and by any quality which is offensive to Nature.

The Causes stirring up or provoking are either contained in the Brain, and make a proper Epilepsy, or come from other parts, and so make an Epilepsy by consent or sympathy.

And that provoking or irritation makes an Epilepsy, when the Brain labouring to expel that which is offensive shakes it self, and by consequence all the Nerves which are adjoynd to it.

There

There is in *Galen*, and almost all Authors, a threefold Epilepsie. The first is that which hurts the Brain in which the Disease is. The second is that which hurts the Brain by consent from the Stomach. The third is when the Disease is sent from other parts of the Body to the Head. And these have their proper names: The first, as being chief, is called *Epilepsia*; the second *Analepsia*; the third *Catalepsia*. But (by *Galen's* leave) that division is superfluous, and in vain is that Epilepsie which comes from the Stomach separated from those which comes by sympathy from other parts; when all ought to be called *Sympathica*, or Epilepsies by consent. Neither is it sufficient to say, that an Epilepsie from the Stomach is distinct from others, because it is most frequent, since that which comes from the Stomach and Spleen, is as usual and as frequent, if not more.

Therefore we divide an Epilepsie into a proper one, and one by consent. Again, we subdivide that which is by consent according to the divers parts from whence these sharp and malignant vapors are sent to the Brain, for there is almost no part in the body from which a malignant vapor cannot be sent. Two Stories are related by *Galen* in the place quoted; the one of a Boy of thirteen years old, who at the first had the Epilepsie in his Leg, after that it ascended into his Thigh and Bowels, and by the sides into the Neck till it came to the Head, which at first touch made him not able to stand. Another is of a Youth, who in the beginning of his Fit perceived as it was a cold Air to ascend. But it is remarkable and well known, that an Epilepsie comes for the most part from the Guts, the matter that breeds Worms, from the Matrix and other parts, and it is confirmed by many Authors.

Therefore it is manifest from what hath been said, how *Galen's* Opinion may be defended, who affirms, That a proper Epilepsy comes of an imperfect obstruction of the ventricle of the Brain; which we cannot defend to be the constant cause, *Galen* seems to grant who lays down no other: but we are rather forced to confess, that it is less usual than the rest.

Nor do the Arguments brought against *Galen* any way convince, the chief whereof are these:

First, as *Fernelius* saith, If an Epilepsie comes from plenty of humors, it would come most in the sleep, at which time there is plenty of humors. I answer, That the humor of which sleep is begot, is in the substance, not the Ventricles of the Brain, and therefore doth not stir up the expulsive faculty which resideth most in the Ventricles.

Secondly, *Fernelius* saith, That because an Epilepsie is quickly dissolved, it should turn into a Palsey, as an Apoplexy doth when the humor is cast into the Nerves. I answer, That in an Apoplexy, by reason of the weakness of the expulsive faculty which is oppressed by many humors, they are cast into the parts adjoining: but expulsion being stronger, and more free in an Epilepsie, they are sent to those parts which are ordained by Nature for their discharge. And it is false which *Fernelius* saith, that an Epilepsie never ends in a Palsey; for we have seen a Palsey come after it. And sometimes Apoplexies at the first coming are turned into Convulsions before there be a perfect obstruction of the Ventricles of the Brain; and also many Epileptick men die by an Apoplexy, when a little obstruction turns into a total stopping.

Thirdly, Against *Galen* some argue thus: As a compleat obstruction of the Ventricles totally takes away the Functions of the Brain in an Apoplexy: So an incompleat obstruction would only diminish, not deprave the Functions, nor produce such convulsive motions as are sometimes more violent than sound Motions. I answer, That Nature being wholly oppressed by a total obstruction doth not labour for expulsion; but she hath strength enough in an half obstruction to move and stir up the Brain to expulsion. This is confirmed by the example of a defluxion falling upon the Lungs, which if it fill the whole Lungs, it makes great difficulty of breathing without a Cough, as cometh to pass in an Asthma, or shortness of breathing: But if small quantity only of humor do fall, the Lungs are stirred up to the expulsion, whence cometh a Cough.

SIGNS. The signs of an Epilepsie are of three sorts; Either they are such as signifie an approaching Epilepsie, or one that is present, or such as shew the difference of Epilepsies.

The signs of an Epilepsie approaching are twofold: Either they signifie the first coming of the Disease; or some fit to be at hand. The same signs serve for both, but most surely in those who are actually possessed therewith, do they shew the condition of it in its return; for in those who never had this disease formerly, these signs are doubtful for the most part, and may declare many Head-diseases; but all of them together may give some certainty.

Therefore all signs of an Eminent Epilepsie are to be propounded with this admonition, That all signs do not meet in all; but some in one, some in another, as the causes and constitutions do differ. But that they may orderly be laid down, we must search the Original of these signs, which flow from Animal, Vital, and Natural actions, from excrements, qualities changed, and proper accidents.

In respect of the Animal Functions, an unaccustomed disturbance of the mind and body, threaten an Epilepsie, heaviness of the head, head-ach, vertigo, or giddiness, or much sleep, from whence the body hath no refreshment; troublesome dreams, dulness of mind, or perplexity, forgetfulness, sorrow, fear, dread, sloth, graveness of actions, snatching and trembling of the parts, dulness of the senses, a down look, clouds and other things flying before the eyes, noise in the ears, a stink in the no-

Stills, a stiff Tongue, and its inordinate Motion, yawning, and neezing.

In respect of the Vital Function, these with others are the Signs: Anger, Beating or Palpitation of the Heart, straitness of the Breast, and alteration in Breathing.

In respect of Natural Functions, these are forerunners of an Epilepsy; disdain of Meat, or immoderate Appetite, Squeamishness, Heart-burning.

In respect of Excrements, these are Signs: Much spittle, thin and crude Urin, often Nocturnal Pollutions.

In regard of qualities and proper accidents changed; paleness of face, and swelling of the heart.

A present Epilepsy is easily known, if it be perfect; but it hath many differences which cause difficulty, as we shall shew.

In a compleat fit all the Senses both internal and external are hindered. The party suddenly falls, and the whole body, or at least some parts are diversly moved: Moreover, there is a staring and thrusting forth of the Eyes, gnashing of Teeth, a difficult breathing, as in those that are hanged; the seed, dung, and urin are sent forth involuntarily, and about the end of the fit, he foameth at the Mouth and Nose, which happeneth only in a vehement Epilepsy, and the fit being ended, he forgets all things he then acted.

Some of the Ancients make three kinds of Epilepsies: one which is like a deep sleep; another which doth shake the body after divers motions; a third which is made of both the former. The late Physicians deny the first kind, saying, That it is more like a Coma, or a Carus, than an Epilepsy; and these two Diseases cannot be otherwise distinguished, but that in a Coma is a deep sleep without a Convulsion, and a Convulsion is a certain Sign of an Epilepsy. But *Avicen* saith otherwise, namely, That an Epilepsy comes many times without an apparent Convulsion. And Experience teacheth us, That many men in Epilepsies have fits like Coma: and it's known to be an Epilepsy, not a Coma, or a Carus by this; The sleep in an Epilepsy cometh and goeth by fits, when in a Coma it comes all at once.

A true Epilepsy is distinguished from an Epilepsy by consent, thus: In the true there appears many Signs of the Brain affected; as heaviness of mind, and slowness, decay of memory, troublesome sleep with dreams, dulness of senses, slowness and idleness of body, pain of the head, and other things. Moreover, the Sick man doth not perceive the fit coming, but is suddenly taken therewith unawares, at the New Moon for the most part. The due proportion of the inferiour parts being without blemish do confirm this Sign.

But we may know whether it come from the right or left side of the head most: By this, either the sight of the one eye is more obscured, or the hearing more thick with the noise of the head on that side; or if the right or left side be more dull.

But we may know from what humor especially an Epilepsy cometh by those Signs which declare when Flegm, Choler, or Melancholy abound.

An Epilepsy by consent is thus known: There appear no Signs of a distempered Brain; the Patient perceives his Disease coming, and a Wind rising from the parts below; or some lower part is weakned, or else affected strongly in the time of the fit.

These things following do shew that the cause of an Epilepsy is in the Stomach: Disdain of meat, an inability to fast, loathing, vomiting, pain of the Stomach, gnawing, pricking, and distention; sometimes beating of the heart, which ariseth from the Stomach.

That the Disease comes from the Liver or Spleen, appears by often belching and breaking of wind, a swelling of the Belly with rumbling and noise, sour belchings, straitness of the Midriff, and pain at times, reaching of the Back, besides some distemper in inferiour parts.

An Hysterick fit, or the Mother, mixt with Convulsions, if a retaining of the Courses or Seed went before, shews that it comes from the Womb.

If the Epilepsy comes from an external part, some wind is perceived to rise from that part, and the matter causing the Disease, sometimes tickleth and beateth in the part, which is a Sign there is a fit at hand; and if that part be tyed hard, the Fit is hindred.

Lastly, The Signs of Worms shew that the disease come from them, as stinking sour Breath, itching of the Nose, pain of the Belly, earthy Excrements, grating of the Teeth, sleepiness, and the like, especially if sometimes Worms are voided.

But the extraordinary causes, as Imposthumation, foulness of the Bone, stopping of Urin, and the like, may be taken from their proper Signs.

PROGNOSTICK. As to the Prognostick, an Epilepsy is a Disease of long continuance, and very stubborn and deadly in Infants.

An Epilepsy coming hæreditary is incurable; but that which comes from external causes, and evil diet is curable.

An Epilepsy coming before fourteen years of age in Boys, and twelve in Girls, is curable: after twenty five years of age is incurable; out of *Hippocrates*, Aph. 7. Sect. 5. For in the time of ripeness

ness of Age, there is great store of Natural heat, which is powerful to discuss Diseases. Moreover, at that time women begin to have their terms, by which the uncleanness of the body is purged. Yet although *Hippocrates* supposed an Epilepsy to be incurable after twenty five years of age, yet this is not always true, for we find by experience that many have been cured after, although but seldom seen; therefore we may say that the *Aphorism* is true for the most part. A strong Epilepsy often killeth the Patient in the fit, or turns into an Apoplexy, or by reason of the strength of the symptoms, and the violent shaking of the Brain, the Fabrick of the body is overthrown. And some parts thereof are broken, and it happens sometimes that pieces of the bones called *Processus Mamillares* come out of the Nose.

An Epilepsy coming of Melancholy turns sometimes into Madness, when the humor is sent from the Ventricles of the Brain into the substance thereof.

The same humors when it is only in the Ventricles of the Brain, stopping them and paining them, causeth an Epilepsy: But when it offends the substance of the Brain, which is the seat of the chief Functions, by defiling its Natural temper, and corrupting the Animal Spirits, and darkening them, it makes a melancholy doting. Hence *Hippocrates*, (6 *epid. Sect. 8. text. 40.*) saith, that Melancholy men turn for the most part to Epileptick, and Epileptick to Melancholy. But these diseases thus change in a twofold respect; either by the change of the matter causing the Disease from its proper seat: and so when one comes, another goes, or by the Propagation of the matter, and then both remain.

An Epilepsy coming of Flegm turns either into an Apoplexy, or a Palsey.

A Quartane Ague coming upon an Epilepsy, and continuing long cureth it, by reason the matter of the Disease is by degrees consumed by the heat of the Feaver if it be of flegm; but if it come of Melancholy, it is sent from the part affected, to the place where the ground of the disease lieth, that it may supply matter to the new fits.

The Cure of the Epilepsy is twofold; the one in the Fit, the other out of it.

Physicians are seldom called to the Cure of the Fit, except it continue over long: in which case those Remedies which we laid down in the Cure of sleepy diseases, especially the Apoplectick Water, the Cinnamon Water, *Aqua Vita* and other Spirits are very proper to discuss the Fit.

Out of your Fit you must vary your Cure as the Cause requires.

And first we shall lay down the Cure of a proper Epilepsy, which consists in Evacuation of humors throughout the body, in the discussing the matter of the Disease, and rectifying its evil qualities; as also in strengthening of the Brain. And since the matter offending in a true Epilepsy is for the most part Flegm, we will direct our general Cure in opposition to that; admonishing young beginners, that if Choler or Melancholy abound, they would prepare and purge them. But the specific Remedies are always the same, of what cause soever the disease doth come.

For a perfect Cure we must thus proceed:

First give him a Potion to purge Flegm, or some other Medicines to that purpose which the Patient can best take, mentioned in the first Chapter. First giving a Clyster, if his body be bound.

After if there be signs of Repletion, or if the party be Sanguine he must be let blood; otherwise not.

Afterwards the Universal Cure of the cold distemper of the brain is to be followed with this Caution, That to the Decoction, Apozemes, Diets, Sweats, Syrups, Chewing and head Powders, you add the Root and Seed of Peony, and Mistletoe of the Oak, which all ancient Authors hold to be most proper for the Cure of this disease.

For his Diet, Guajacum is the best Sweater. By the use of which *Jachinus* reports, that he cured many; but let it be continued thirty or forty days.

To every Dose of the Sudorifick Decoction, put some drops of the Spirit of Vitriol, which is thought very proper for the Epilepsy.

You must often use the common Purges, namely, the Pills, or Magistral Syrup, once or twice a week if the Patients strength will suffer them, and continue purging for divers moneths: and sometimes use stronger Purges, as *Messaria* ordains, who saith it comes from hence that Epilepsies are not, or seldom cured, because the Physicians always give weak Medicines.

For this cause, the Chymicks use Minerals, which draw the humors from the remotest parts, but not without much danger, especially if they be not well prepared. But if good success may be expected from these Chymical Medicines, it is to be found in Mercury or Quicksilver, either by its self, or with Gold calcined in a Furnace of Sand with a long continuance of fire, watching narrowly lest any crude portion of him remain, which would make the Medicine very violent; otherwise it will work gently, if given in the quantity of four or five grains in Cochie Pills, or any extract that purgeth flegm or all humors.

A new Epilepsy is sometimes cured with salt of Vitriol; as *Angelus Sala* saith, That he hath cured at thrice taking of it, an Epilepsy, giving it every fourth day. And after in his 77 *Curat. Cma.* 2. he boasts

boasts that he cured a Girl of eleven years of age of an Hereditary Epilepsy, with *Stribium* calcined given only thrice.

Quercetan's Syrup of Tobacco is very good for the Cure of the Epilepsy: But it is not to be used but by a wise Physician, it is so vehement.

Instead of the Opiate before mentioned, this may be used, which is more specificall:

Take of the Conserve of Rosemary flowers, Peony and Bugloss, of each half an ounce; Citron Bark candied two drams; of the Powder of Mistletoe of the Oak, Peony seeds and Elks Claw, of each half a dram; Mans Skull that was not buried calcined white, one dram and an half; Coral Pearl and Harts-horn prepared, of each four scruples: right Bezoar stone one scruple: Diamoschu dulce, Diatrion santalon, of each two scruples; old Treacle, and Confectio de Hyacintho, of each one dram: Spirit of Vitriol fifteen drops; with the Syrup of candied Citron Barks make an Opiate; of which take the quantity of an Acorn or Filbert, drinking a little Cinnamon water after it.

But this following is most powerful for the rooting out of the Disease after the Body is well purged:

Take of Conserve of Betony Flowers and Rosemary Flowers, of each two ounces and an half: *Eringus* Roots candied, and *Mithridate* of each one ounce: the Powder of *Saxafras* six drams: *Castoreum* three drams; Mans Skull not buried, and Elks hoof of each two drams: of the roots and seeds of Peony and Gith seeds, wild Rue and Pellitory, of each one dram; Oxymel as much as is sufficient to make an Opiate, of which take two or three drams.

The Opiate of *Montagnus* goes beyond all, by which many have been cured: It is made thus:

Take of the Roots of small Peony, *Stachas* and Pepper-wort, of each ten drams: *Agarick* five drams: Pellitory, Caraway seeds, Dill, *Affaxatida* and *Aristolochia* or round Birthwort two drams and an half: of the Juice of Squills and Honey, of each one pound and two ounces: Boyl the Squills and Honey gently to a good consistence; then add the Powders, and make an Electuary: of which take two, three or four drams, as age requires, continuing it twenty or thirty days.

After the use of the Epilpastick Plaster, you must apply a Vesicatory to the fore-parts of the head, and a Caustery to the Neck.

But a Seton or Skein of Silk drawn through the Neck draws the Humors more strongly out of the Brain. And *Fabricius Hildanus* reports that he cured a Youth that had the Falling-Sickness every day, and had used all means he could get, in vain; and a Girl of eighteen years of age, born so, only by the continuance of a Seton.

If you conjecture that the vapors rising from the parts below and flying into the Brain, produce this disease and nourish it; it is good to apply a Caustick to the forepart of the head, avoiding the Sutures; for *Carolus Piso* reports that he cured two by so doing. Also if the Disease come from the inferior parts, the waters of Germany called *Aqua Acidula* do work wonders, and sometimes root out the Disease, if first Evacuations have been sufficiently made, and the Veins inferior have been opened.

But an Epilepsy coming from the Matrix requires a special Cure.

The Powder of Elder Berries described by *Quercetanus*, given three days together, the quantity of a dram with some Hysterical Water, is good.

If all means fail, the last Remedy is, to open the part of the Skull with a Trepan, at distance from the Sutures, that the evil air may breath out. By this means many times desperate Epilepsies have been cured, and it may be safely done if the Chirurgion be skilful.

Let the Patient drink ordinary Hydromel, or a small Decoction of Guajacum with Peony Roots.

Let him carry a Bag about his Neck made thus:

Take Peony Roots and Mistletoe of the Oak, of each one ounce; Elks hoof two drams; Nutmegs, Cloves, and Mace, of each two drams: Rue and Hyssop, of each one dram and an half: Powder them and put them into red Sarsnet to be hung about his Neck that he may often smell to it.

After Universal Evacuations, among other Medicines you must use Specificall Medicines, which you may find in many Authors. We shall set down some of the best (besides those Opiates prescribed) which are of no small Consideration in the Cure of this Disease.

Rondeletius commendeth much the Water of Swallows, which *Quercetanus* borrowed of him in his Dispensatory. Treacle Water is of no less value, and *Aqua Cephalica*, and Symplicum Antiepilepticum, mentioned by *Quercetanus*.

This Root of wild Valerian is much commended by *Fabius Columna*, that (once or twice taken) it cures the Epilepsy. And he reports he gave it to many of his Friends, who affirmed, That (under God) they were cured by it. The Dose is half a spoonful in Wine, Water, Milk, or any other proper

proper Liquor; but it is given to Children in a less quantity in Milk.

The Chymists commend the Spiritual mixture, than which no better Medicine can be required (as they say) The Composition whereof is as followeth:

Take of the Spirit of Vitriol one part, Spirit of Tartar three parts: Treacle Water with Camphire four parts: Mix them, and let them stand in a glass well stopped three or four weeks.

The Dose is one dram in any proper Liquor, or Vehiculum to swallow it down with.

Rulandus used much the *Oleum ligni Heraclei* (which the Chymists affirm to be of Corolyns, or the Oyl of the Hazel-nut, or Filbert-tree.) And in his Centuries he relates some passages of them, which by the use of the Medicine were cured. The Dose is three or four drops in any proper Liquor for five days together.

The Oyl of white Amber is inferior to none, if not the best, being drawn by a good Artificer, and smelling of no fire, but sending forth a most fragrant scent. The Dose is from half a scruple to one scruple.

The Oyl of Box-tree taken by four drops at a time, in four ounces of the water of the Tile-tree flowers with four drops of the Spirit of Sulphur for some certain days together is very powerful, and is thought by many to be the true Oyl of *Lignum Heraclei*.

Crato calls the Natural Cinnaber the Load-stone of the Epilepsie, and makes this Powder of it;

Take of Natural Cinnaber or Vermillion, which is clear, and finely powdered, half an ounce; red Coral and Pearl prepared, of each two scruples; Saffron one scruple, the Leaves of Gold five; Grind them all very finely upon a stone. The Dose is from six grains to a scruple in the time of the fit, in some proper Liquor.

The Cinnaber or Vermilion, or Antimony, which is taken after the extraction of *Mercurius Vite*, is thought by Chymists to be of no less vertue than the former: for if it be mixed with an equal weight of the Magistery of Pearl, Coral and Powder of a dead mans Skull, it is a Specificall Medicine in an Epilepsy though it be old. The Dose is from ten grains to fifteen in a proper Liquor.

The Cure of an Epilepsy by Consent is first to begin with the part affected, and that part is to be cleansed and strengthened by convenient Medicines taken out of those proper Chapters wherein they are mentioned; not omitting Specificall and Antepileptical Medicines, which are always to be used in every Medicine. But if the Epilepsy come from any external parts, besides the Universal Cure, we must have a special eye to that, and the malignant matter therein contained is to be evacuated by Cupping-glasses with Scarrification, Vescatories and Cauteries. And if the disease continue after the Escar or Scab is fallen off, you must apply the Cupping-glasses again; and at last, when necessity urgeth, you must apply an actual Cautey. If the Disease come from a foulness of the Skull, that is to be taken away with the Trepan and burning.

CHAP. VIII.

Of the Falling-sickness in Children.

BEcause this disease is common among Children, and useth to be very dangerous unto them, therefore we shall add a peculiar way for their Cure it self, because it is very much differing from that in elder People.

First therefore make the Belly soluble with a Suppository or Clyster.

After or about the same time, give a purging Medicine proportionable to the strength of the child. We need not fear to give of the Electuary or *Diacarthammum* two drams to a child of one year old, if the Disease come of corrupt Milk.

Take of Hiera Picra half a scruple; Pulvis de Gutteta half a scruple; Give it with a proper Liquor, or with Honey of Roses.

Apply Cupping-glasses to the Shoulders and Loyns, and with Scarrification, if the Child be one or two years old.

Apply a Vescatory to the hinder part of the Neck.

If the Purgation have not done well, or little profited, you must vomit with the white Vitriol prepared, or with Salt of Vitriol, which may be given twice, thrice or four times if the disease increase. The Epileptick Powder commonly called *de Gutteta*, may be given often with Milk or Broth, from half a scruple to a scruple.

That Epileptick Powder is not found written in our Dispensatory, but in the Shops at Montpelier, It is usually compounded thus:

Take of Peony Roots and Seeds, white Dictamnus, Mistle of the Oak, of each half an ounce; Powder

Powder de Gutteta, the seed of *Atriplex* or Orange, two drams; the Powder of Mans Skull three drams: red Coral prepared, Hyacinths prepared, of each one dram and an half: Elks hoof prepared half an ounce, Musk one scruple, Leaf of Gold one dram; Mix them into Powder.

Take it in a small spoonful of water against the Epilepsy; or instead thereof in Cinnamon water, or Imperial water, or with some drops of the Spiritual mixture with a proper Liquor.

Apply to the hinder part of the Head, a Plaster of *Ammoniacum*, the hair being shaven, for it hinders a Flux of humors that falls from the head upon the Back-bone outwardly.

Use this Powder to the fore-part of the Head.

Take of Nutmeg half a dram; Peony seeds one dram and an half; Lavender flowers one pugil, Amber two scruples; Make a Powder.

Or apply the strengthening Plaster prescribed in the Cure of the cold Distemper of the Brain.

Two or three drops of Oyl of Amber, with an equal quantity of Spirit of Vitriol given in Betony water, do presently free a Child from a fit of the Falling sickness. The same Oyl is good to anoint the Nostrils. Instead of Oyl of Amber, give the Oyl of Box; as also the water of Tile-tree-flowers and Betony water.

The smoak of Tobacco doth free Children from the Epilepsy, if you put in the small end of the Pipe into the Childs mouth, and blow in the smoak, or if you blow it from your mouth.

Let the Back-bone and the Members contracted be anointed with this Liniment:

Take of the Oyl of Rue, and of Earth-worms, of each two ounces: Oyl of Castor one dram: a little Aqua vitæ. Make a Liniment.

Take of old Treacle one dram: Confection of *Alkermes* and Hyacinths, of each one scruple: Betony, Sage, Marjerom and Cinnamon water, of each half an ounce. Mix them, and bath therewith the Nostrils, Temples and Ears. You may also give a spoonful to be drunk.

But it is better to anoint the Nostrils, Temples and Crown of the Head with the Apopleckick Balsom described for sleepy Diseases; as also the Mouth and Palate.

Skenkias in his 5 Century of Exotick Experiments, num. 85. hath this Receipt out of *George Rufner*; This is an approved Medicine in Childrens Epilepsies: Give a little fine Musk in thin Wine, twice or thrice in a day, and it will cure perfectly.

While these things are performing, you must give once or twice in a day, a Clyster thus made:

Take of the Roots of round Birthwort, of Polipody of the Oak, of *Carthamus* seeds, of each half an ounce: Peony and Cummin seeds, of each three drams: the flowers of Camomel and Rosemary, of each one pugil: boyl them to one pint: take half a pint of it strained: Hiera Picra three drams: Honey of Rosemary one ounce: Oyl of Rue and Lillies of each three drams.

Two special things are to be practised:

The one is the Root of wild Valerian before commended by *Columna*; which he saith he hath given powdered in Milk, and thereby cured very many.

Another is the Gall of a sucking Puppy, which is mentioned in *Untzerus*, thus; Take a little black sucking Puppy (but for a Girl take a Bitch Whelp) choak it, open it, and take out the Gall, which hath not above three or four drops of pure Choler: give it all to the Child in the time of the fit with a little Tile-tree-flower water, and thou shalt see him cured as it were by a Miracle presently.

If the Child suck, look that the Nurfs Milk be good, let her have meat of good juyce, and light of digestion: let her drink no wine, but water, or water and Honey, and a small drink of *Sarsaparilla*.

Some Children are so subject to this disease, that it will return again after it is once cured. Nay, in some Families all the Children use to die of this Disease. Therefore you must use preventing Medicines, not only to those which are newly born, but to those also which have recovered.

First therefore to Children newly born, before they suck, give one scruple of the Powder de Gutteta mentioned before, in a little Milk, and give the same quantity thrice in two days.

It is good both for them which have been cured, and children when they are a few days old, to apply a Caustick to their Necks. But an actual Caustery is much better, which our Physicians will not use, because they abhor violent and terrible Medicines. *Rondeletius* affirms, That the actual Caustery is so used in Florence, that the women do use to apply it themselves. And this doth *Aquapendens* witness in his Chirurgical Operations, and teacheth the way of applying them in his proper Chapter of the Burning of the hinder part of the head in Children.

Let the child be purged twice in a moneth with Manna, Syrup of Roses, or of Cichory with Rubarb.

Every New Moon give it a dose of the Epileptick Powder de Gutteta above mentioned.

Make a Bag to strengthen the head and a Fume for the head-cloaths, as in the cure of cold diseases of the head; and also powder its hair with the Powder before mentioned.

For the Cure of this Disease, this is a good Preservative ;

Take of Spirit of Wine four ounces ; Spirit of Castor one ounce ; Peony Roots three ounces. Let them be infused and strained. Wash the whole body of the Child with it warmed.

CHAP. IX.

Of Giddiness, called Vertigo.

A Vertigo is a false Imagination, in which all objects and the head it self seem to turn round, so as the Patient often falls to the ground, unless he lay hold on some stay at hand.

It may be objected, That in a Vertigo the Imagination is not hurt ; for if it were so, the Patients would think the objects truly turned round ; as men in Madness and Phrenzy do think what they imagine to be truly so. We answer, That in a Vertigo the Reason is not hurt, which perceiveth the error of the Imagination ; but in a Phrenzy, or Melancholy, the Reason is hurt as well as the Imagination.

DIFFERENCES. There are two sorts of Vertigo's ; the one simple, called in Greek *δίνος*, in which the Sight remains unhurt : the other is called *σκότωμα*, or *σκοτόδίνος*, a dark Vertigo, in which the Eyes are both darkned as it were with Smoak, or a Cloud.

In both kinds the Sight is somewhat hurt, because the Spirits which use to go directly to the Eyes, are moved out of order by the Visive Nerve, by reason whereof the Eye doth not so fitly enjoy them. But in a dark Vertigo there is a more violent motion of the Spirits, so that they come less to the Eyes, from whence the Sight is darkned or hindred.

CAUSES. The immediate cause of a Vertigo, is the circumvolution of the Spirits coming of a vaporous matter or wind, which coming into the Ventricles of the Brain, *Plexus Choroides*, disturbs the Spirits, and makes them run round ; whence the species of the Objects brought by those Spirits are moved in like manner ; and so the objects themselves seem to be moved also the same way. But here we may doubt, since a Vertigo is the symptom of a hurt action, and every action hurt depends immediately upon a disease, how the Circumvolution of the Spirits can be the immediate cause of a Vertigo, when it can be referred to no kind of disease. To which we thus answer, A Circumvolution of the Spirits is a Disease in respect of Scituation ; for at that time the Spirits do not keep that place or position which naturally ought, but move preternaturally and amiss. And this answer hath a weighty instance : For a Disease is an affection of a true part, but Spirits are not true parts. We answer, That Axiom is not always, but sometimes true ; according to *Galen*, that which is principal and hinders the action of its self, is the true Disease : We say that the word [*Part*] ought to be taken in a larger sense, comprehending all those things which go to the making up of the body, and whatsoever hinders the action of any part, is called a Disease. So a yellow colour in the Eye hurts the sight immediately, and therefore it is called a Disease in number ; so a bitter savour in the tongue, and noise in the ears, are Diseases in number, in regard there is something in those parts besides which offendeth the actions. After the same manner is the Circumvolution of the Spirits, a Disease in Scituation or Position, for the Reason above-mentioned.

But those vapors are sent up from evil humors, not continually without intermission, but by the compass and going about, and at a distance, namely, as often as they are raised up by an external cause ; and the humors are such as use to produce vapors, namely, Blood, Choler, Flegm, and Melancholy, and the watery humor ; because both a cold as well as hot vapor may cause a Vertigo ; as *Galen*, 3. de loc. affect. Chap. 8. and Comment. Aphor. 23. Sect. 3.

These evil humors are either contained in the Brain, or in the inferior parts. Hence a twofold Vertigo ariseth, one proper, the other by consent.

Waterish and flegmy humors heaped up in the Brain send wind and vapors to its Ventricles, which stirring about there, do cause a Vertigo. And so a proper Vertigo comes to be a fore-runner of an Epilepsie or Apoplexy.

But humors contained in the inferior parts, especially the Stomach and the Spleen, do easily send up vapors to the head, which if they touch the Ventricles and the Arteries, cause a Vertigo.

The external causes are all such things as will quickly dissolve the humors, and turn them to vapors, or make an inordinate motion in those vapors. Among which are reckoned by *Hippocrates*, Aphor. 17. Sect. 3. a South-wind, and sudden change of Air. To these add the heat of the Sun, windy Meats, Garlick, Mustard, Radish, Pease and Beans, Drunkenness, Gluttony, immoderate Exercise, and unseasonable, the suppression of a wanted evacuation, anger, Baths, hunger, especially in those which are full of bitter Choler, often turning of the body round, long looking upon Wheels and things

things that run round, and of Waters that run swift, looking down from a high place, a Fall, a stroak upon the Head, a Fracture, or depression of the Skull, compressing and lying upon the Brain.

DIAGNOST. We shall lay down no Diagnosis, or general signs to know this Disease by, because it is of it self manifest. Yet in particular we shall declare those signs which shew the part affected that containeth the mine or matter of the disease; as also those which shew the humor offending.

Pain of the Head shews that a Vertigo cometh from a disease of the Brain, which is a true or proper Vertigo. Also heaviness, and the loss of some sense; as dimness of sight, noise in the ears, thickness of hearing, decay of smelling and tasting; the beating of the Arteries of the head when other parts are free.

The signs that shew what the matter is that offendeth, are these; That abundance of Flegm offendeth, is signified by a dulness of the internal and external senses, heaviness of the head, slowness of motion, drouziness, much spitting, want of appetite, want of thirst, white Urin and crude with the other signs of abundance of flegm.

But watchings, wrath, nimbleness in actions, thirst, bitterness of mouth, quickness of pulse, a thin and yellow Urin, and the like, shew that a Cholerick matter offendeth.

The signs of a melancholy matter are, fear, sorrow, troublesome thoughts, much watching, fearful dreams, sour belchings, and the like.

The signs of blood abounding, are stretching of the Veins with fulness, redness of face, and heat, beating of the Temples, heaviness and distention in the head, long sleep, dreams of red things, weariness, retching, thick and red Urin, sometimes thin and transparent by the ascension of blood into the head.

A Vertigo by consent is known by the want of those Symptoms which come from the Head, when any disorder is found in the Brain, but rather some part beneath is sensibly hurt.

These things shew that a Vertigo comes from the Stomach, want of appetite, loathing, sour belchings, pain of the Stomach, or swelling with Wind.

That a Vertigo comes from the Liver, Spleen, or Matrix by consent, the same signs declare which were laid down in an Epilepsie by consent coming from the same parts in the Chapter foregoing.

PROGNOSTICK. The Prognostick or foreknowledge of this Disease, is thus:

A new Vertigo that comes but seldom, and which comes only from external causes, are more light and easier cured: On the contrary, that which is old and comes often, turneth for the most part into an Epilepsie or Apoplexy.

A Vertigo in an old man is most dangerous, because his Brain is colder and weaker, and Flegm doth more abound.

A Vertigo in which not only external things, but also the Head and whole body seem to be turned about, and which happens with hurt to the sight, is more dangerous, for it signifies greater force in the cause of it; and if the sick man falls to the ground, it foretels an Epilepsie or Apoplexy.

A Vertigo coming of hot humors, is sooner dissolved than that which comes of cold, because hot humors are sooner dispersed.

CURE. The cause of the Vertigo is much like that of the Epilepsie, because both Diseases come almost of the same causes: whence it comes that a Vertigo often turns into an Epilepsie. But because a Vertigo is a lighter Disease, it doth not need so many Medicines as an Epilepsie: but they will serve, which we will here lay down; and also we shall demonstrate in short what is that which this Disease most properly requireth for its Cure.

In the first place, Therefore if blood abound in the whole body, or in the head, you must open a Vein, and let the blood out by degrees, giving before a Clyster that is somewhat sharp.

After that, give the ordinary Purge which is prescribed in the Cure of the cold distemper of the Brain.

Afterwards we must come to the particular Evacuations of the Brain, by Errhines, Sternutatories, and Gargarisms, or Apophlegmatisms mentioned in the first Chapter.

Cupping glasses dry, and with Scarrification; Frictions of the extreame parts, and opening of the Hemorrhoids are to be used for to cause revulsion.

Apply Vesicatories and Cauteries for derivation, and at last use those things which strengthen the Brain, and disperse vapors and humors as well externally as internally, as Opiates, Powders, and Bags that are described in the first Chapter.

And you must not omit the digestive Powder, because the weakness of the Stomach often causeth this Disease.

And lastly, You must use those Medicines which are esteemed by special quality to cure the Vertigo; such are those which were prescribed for the Cure of the Epilepsie; namely, Antepileptick Waters, a Balsom to anoint the Nostrils, Temples, and Crown of the Head, Oyl of Amber, Powder of Cinnamon, and many other.

Moreover, *Quercetanus* in the twentieth Chapter of his Dispensatory, commends a Medicine made

made of Peacocks dung, whose preparation and manner of use may be seen in the Author.

If the Disease do obstinately resist the propounded Remedies, you must fall to a Diet of the Decoction of Guajacum.

A Cautey in the fore-part of the Head, is much commended by *Zacutus Lusitanus* in his First Book of Admirable Practice, Obs. 38. in these words; *A certain man was so troubled with a dark Vertigo, that his Brain did almost continually seem to run round: and when he had tryed many Medicines, and there was fear of an Apoplexy to follow; with no other means (besides general and particular Evacuations, and Fontanels or Issues in divers parts, and a Seton in the nape of the Neck) could be cured, but with a Cautey in the fore-part of the Head; by which only (beyond the expectation of Physicians) I have cured many of the Falling-sickness, letting them run a long time.*

CHAP. X.

Of Tremor, or Trembling.

T*remor* is called *Τρόμος* in Greek; it is a voluntary motion depraved, by which the Member is sometimes elevated, sometimes depressed, through the mutual contention between the faculty, and the part affected.

It is called a depraved motion, from *Galen*, 2. *de sympt. caus.* chap. 1. and he says the same in his Book of the Difference of Symptoms, Chap. 3. but he seems to contradict himself, when in his Book of Trembling, Chap. 4. he reckons Trembling among the motions which are diminished. But that contradiction may be reconciled, by saying, that motion may be considered two ways, either in respect of it self, or in respect of the faculty: If it be considered in respect of it self, it is depraved, because it is not in that manner it ought to be; if it be considered in respect of the faculty, it is a diminished motion, because it comes from a faculty so weak that it cannot produce motion strong enough. But one may instance, That the action is always diminished when it comes from a weak faculty, but never depraved. I answer, That it is true, if all the actions depend upon the faculty; but Trembling comes partly from the faculty, partly from the heaviness of the part; therefore it is a depraved motion.

The moving faculty desireth to lift up the Member, and to keep it in that Position; but the weight of the member presseth it downwards, whence comes a trembling motion.

CAUSES. The mediate Cause of Trembling, is weakness of the motive faculty, or rather of its nearest Instruments, that is, the Animal Spirit, which is not able to exercise a voluntary motion perfectly.

The Spirits are made weak, either by a fault in themselves, or by a defect in the Nerves, which are the Conduit-Pipes by which they are carried, do act.

The fault is in the Spirits, either when they are but few at the first; or when they are afterwards dissipated.

They are few at the first, either by reason of the cold distemper of the Brain, as in old men, or through the want of vital Spirits, which are the matter of which the Animal are made.

The Spirits are dissipated from many external Causes, as immoderate Evacuations, much use of Venery and unseasonable, great pain, and constant fasting, sorrow, and long violent Diseases.

The Spirits are hurt by defect in the Nerves, and are weakened either when the Nerves are too cold, or are infected with a malignant quality, or obstruction, or compressed.

They grow too cold, either from cold Air, from use of cold meats, or much drinking of water, swimming often in cold water, and the like.

They are infected by the use of Opium, Henbane, Poppy, and the vapor of Quick-silver, as it is seen in Goldsmiths, and them which have the French-Pox, and have been cured with the fume of Cinnaber. So in malignant Feavers tremblings come also (which are rather to be accounted Convulsive motions) and also they come from the provocation or irritation of the nervous parts.

They are stopped not wholly, as in a Palsey, but much less, but by the same Cause, namely, a watery humor gently sprinkled upon the Nerves, which is produced of gluttony, drunkennels, and other Causes.

Lastly, Trembling may come from compression of the Nerves, when excrementitious humors abounding in the whole body do compress the Nerves, and hinder the free passage of the Animal Spirits.

Herenus Saxonia, besides the causes mentioned borrowed from *Galen*, acknowledgeth another Tremor coming of wind; and *Cardanus* another from pain in nervous parts: But they are deceived, because the motions produced from those Causes are to be referred to Palpitation, or Convulsive motion.

There is no need of Signs in this disease, because trembling appears of it self: But the Cause that produce it, are to be known by their proper Signs; as also we must search for those external Causes which went before.

PROGNOSTICK. As for the Prognostick. Trembling of it self is not dangerous; but if it be in old people, it continueth with them till they die. But it may be deadly by accident, in as much as it usually goes before a Palsey or an Apoplexy.

CURE. You must cure Trembling as you do cure the Palsie, and therefore we shall not make vain repetitions of Medicines.

CHAP. XI.

Of a Phrenitis, or Phrenzy.

A Phrenzy is an Inflammation of the Brain and its Membranes, with a continual raving, and a sharp constant Fever.

By the word *Inflammation*, we understand a true Tumor, which is commonly called a contracted Inflammation, coming of blood out of the Vessels falling upon the substance of the part; for the blood being hot and Cholerick, and in the Membranes or substance of the Brain, causeth a true *Erysipelas*, or an *Erysipelas Phlegmonodes*, or *Phlegmon Erysipelotodes*.

By *Delirium* or Doting, we understand the erring of Reason, for we suppose that fault cannot be in the Imagination alone, without a fault in the Reason, in a Phrenzy; whatsoever others think, we are led by the Authority of *Galen*, who in his Book of the Differences of Symptoms, chap. 3. gives an example of one *Theophilus* a Physician, who thought Fiddlers sate continually in a corner of his house playing, and believed that he saw them sometimes standing, sometimes sitting, and cryed continually that they should be cast out of doors. And *Galen* saith, That in him the Imagination was hurt without the Reason. First therefore we may say, that *Theophilus* had not a Phrenzy; for *Galen* doth not say that he had, but speaking of a *Delirium*, (which *Theophilus* had) therefore it was rather melancholy, because they sometimes are in one object, and discourse well concerning other: so saith *Galen* of *Theophilus*, that he had wisdom in other things, both to discourse, and to know his friends. But we say further of *Theophilus*, that not only his Imagination, but also his Reason was hurt, because he really thought the Fiddlers were there, and desired they should be put forth: For when the Imagination alone is hurt, the Reason being not hurt acknowledgeth the error of Imagination, as in a Vertigo, in which the Patient thinks all things run round, but Reason knoweth that it is not so indeed, but that Imagination doth err.

Nor is the Opinion of *Eustachius Rudius* to be received in this case, who saith, that it never comes to pass that the Imagination should be hurt, the Reason being sound, because Reason worketh upon Phantasms received from the Imagination, and therefore if foolish Phantasms are offered to the Reason, he thinks it necessary that the Understanding beholding those foolish fancies, should also be foolish. And hence *Eustachius* gathers, that the Imagination is not depraved, but there is a meer and simple deceit of the sight. We may say that the Understanding doth run from one thing to another, and is busied about those Species which are retained in the Memory; and though the Fancy presents absurdities to the Mind, yet the Species before received are still retained in the Memory, and are presented to the Reason, it can know and correct that mistake of the Fancy; namely, if it judg that those absurd fancies which are brought to it by a depraved Imagination do neither agree with time, place, or other circumstances which still remain in the Memory, and are known to be true. So in a Vertigo, Reason being in order judgeth that it is impossible that Roofs, Walls and Pavements, should turn round, and therefore they are falsely represented to the Imagination. So the Philosopher that was bit with a mad Dog, and his Imagination began to decay, going into a Bath, perceived the false Image of a Dog therein; but Reason being sound reproved the error of his Imagination, and made him speak thus; What hath a Dog to do in a Bath? and presently he cast himself into the Bath, by which means he was delivered from the danger of a Disease called *Hydrophobia*, or fear of Water.

DIFFERENCES. There are two kinds of Phrenzy; namely, a true Phrenzy, which is laid down in the Definition above-mentioned. Another which is called *Paraphrenitis*, or a Bastard-Phrenzy.

A true Phrenzy is sometimes in the Disposition, which is most usual, sometimes in the Habit, which is called *Hectical Phrenzy*, in which the cholerick humors are strongly fixed in the Brain, and possess many parts thereof, sticking thereto like a Tincture or Dye.

A *Paraphrenitis*, or a Bastard-Phrenzy is, when a hot distemper is communicated to the Brain, either from the whole body (as in burning Feavers) or from some part inflamed, as the Stomach, Liver,

Liver, Lungs, and especially the *Diaphragma* or Midriff, which by Inflammation doth produce a Disease very like a Phrenzy; namely, a continual Dotage called *Delirium*; which cometh to pass by the great consent which is between the Brain and the *Diaphragma* through the Nerves that come thither, and by the perpetual motion of the *Diaphragma* or Midriff, by reason whereof continual vapors are sent to the Brain.

CAUSES. The Cause of a true Phrenzy is Cholerick blood, to which there is joyned also excrementitious Choler, and this produceth a greater or less Phrenzy according to its divers degrees; namely in heat and adustion. So a pale Choler produceth the mildest Phrenzy, and an adust or burnt Choler stirs up a Bestial Phrenzy.

But when the Brain is inflamed, and the Membranes thereof, the Cholerick blood is out of its Vessels, and shed abroad into the substance of those parts; which is done two ways, either when the Brain is principally affected; or when it is affected by Sympathy.

The Brain is primarily affected when it doth immediately grow hot from an external cause, as from the Sun-beams, drinking of Wine, Wrath and the like; so that the blood which is contained in the Veins of the Brain is moved and carried out of its Vessels; and this may come from a wound or stroak, or contusion of the head: And a Phrenzy so coming may be called a primary or principal Phrenzy.

But a secondary Phrenzy is that which follows burning and malignant Feavers, when a part of that humor which causeth the disease, is carried to the head.

It followeth many times in these Feavers, That Nature being disturbed by the malignity of the Cause which maketh the Disease, sends some portion thereof to some flesh between the skin and the bone; whence we see Plurisies, shortness of Breathings, Quinsies, Hypatitides or Inflammations from the *Vena Porta* and other parts, to follow these Feavers: So if these humors are sent to the Brain, they make a true Phrenzy, and then the Fever goes before the *Delirium* or Doting. But in primary Phrenzies a *Delirium* appears with the Fever from the beginning.

SIGNS. The Signs which declare a Phrenzy to come are these, Watchings, troublesome sleep, much talk, and urine that is first thick, and after thin and perspicuous, heat of the head: for these declare that hot matter is carried to the head; the eyes are altered, because (the Brain being hurt) they want the animal Spirit. There is a pain about the hinder part of the head, because the jugular veins are carried to that part, and send forth the Cholerick blood.

These are the signs of a Phrenzy present; a continual doting, because the Brain is always affected; troublesom watchings coming from the hot distemper of the Brain; seldom and great violent breathing, because men in Phrenzies forget to breath: for when by forgetfulness, or great trouble of the mind by many fancies which are presented to a doting imagination, and withdraw the animal spirits, Respiration or breathing is very seldom, it is made up with the greatness of the blast.

Moreover in a Phrenzy there is no thirst, or very little; albeit there are strong causes of thirst present, because the mind is sick, and the animal spirits (by reason the Brain is hurt) do not send their beams to the mouth of the stomach whereunto thirst belongeth. The Pulse is weak because the heart suffers with the brain; hard, because the *Membrana* is inflamed; quick and often, by reason of the great urging; and sometimes moist, because the Brain is affected. Moreover, there is a continual Fever, because the Inflammation of the Brain must of necessity cause a Fever. The tongue is rough, black and yellow, by reason of the Cholerick vapors which dry up its moisture.

An Hectical, or Habitual Phrenzy is known from *Hippocrates*, 1. *Proorrh. text.* 33. by small doting, and little perceived; when the sick do not speak, but lie still and seem to sleep.

But a Phrenzy or *Phrenitis* is distinguished from a *Paraphrenitis* in this; The Disease which produceth that, is sooner known than a *Delirium* or Doting; and by the increase or diminution of that, the *Delirium* is increased or diminished: and sometimes it intermits and is not constant. But a *Paraphrenitis* springing from the Inflammation of the Midriff, in which there is a constant doting, is distinguished by other signs. Namely, because in a true Phrenzy there is great and seldom breathing: but in the other, little and often. Little, because the *Diaphragma* or Midriff being inflamed, cannot easily be extended and dilated. Often, for necessity, that the smallness might be made good by the frequency. Moreover, in a true Phrenzy the voice is high, and the Patient crys out loud: in the other the voice is low, because the instrument of breathing is hindered. And lastly, in the Inflammation of the Midriff, the *Hypochondria* are drawn up (according to *Hippocrates in Coacis*) and the reason is, because the Midriff is recovered beneath with a *Membrana* coming from the *Peritoneum*: and therefore when it is inflamed, it contracts the *Peritoneum*, and with it the *Hypochondria*.

Lastly, The Signs of the Causes may be known from the predominancy of the humor in the whole body, and from the manner of the *Delirium*: For a pale Choler makes a more gentle Phrenzy: a yellow Choler makes a more violent: an adust Choler makes the most violent: But a Cholerick blood causeth the most mild of all.

PROGNOSTICK. The Prognostick of this Disease is for the most part deadly; for few escape, in regard a noble part of the Body is affected with a great Disease.

The greatest hope of recovery is when there is a Dotage with laughter, and a decrease of Symptoms, continuance of strength; as also when after the height of the Disease there happeneth some beneficial evacuation, as sweat, blood or looseness.

But these shew the disease to be deadly; the tongue quavering, and Hand trembling, gnashing of Teeth, Convulsion, a great chilnel or cold in the beginning of the Disease; as also when the Patient picketh the wooll or Straws about his bed. You may farther collect Death to be at hand by a drop of black blood flowing from the Nostrils, by white stools, white and thin urine; For all these signify a great oppression of the Brain, or a flowing of Choler from the whole body to the part affected,

CURE. For the Cure of this disease, the blood that flows to the head must be let forth, and revealed, derived, repelled and intercepted; and that which was there before must be evacuated and dissolved. The distemper of that part must be corrected; the strength of it and of the whole body is to be preserved.

All these things may be done with the following Medicines:

In the beginning of the Disease, at any time of the day you must be let blood out of the Head vein, because the disease is very violent, giving a Clyster before: or if blood do much abound, out of the Liver vein: or first, out of the middle vein: and a little after out of the Head vein.

If the disease come from stoppage of the Terms or Hemorrhoids, open the vein called *Saphena* in the foot: In the next place you must open the *Cephalick* or Head vein, that you may draw forth what is received into the Brain, or what is nigh into it.

For the most part once bleeding will not be sufficient in this disease, but twice or thrice, or oftner in the beginning or increase of the disease; you may adventure upon it, according to the condition or plenty of the humor, the age, temper and strength of the Patient.

If a Phrenzy taketh one that hath a constant Feaver, (as is often in the increase of Feavers, or in the state of them, when nature is out of order and disturbed by the malignity of the matter which causeth the disease, sendeth Cholerick humors to the head) you must again let blood, though you have done it before in respect of the Feaver: but you must do it sparingly, because the strength is abated by the Feaver and former bleeding. Therefore at that time open the Head vein, or if the strength will not bear that, open the *Saphena* one foot, or both; which is approved in such Diseases: neither is it less beneficial to open the Hemorrhoid veins by Leeches.

But in all Bleedings which are made in the time of a *Delirium*, you must observe this, that the Orifice be not large, for then it will quickly heal, and you must bind it up carefully, lest the Patient being unruly, cause it to bleed again; as also 'tis very good for the sudden cure of it, to lay a Plaster of Aloes, white of an Egg, and the hair of a Hare.

After Bleeding provoke sleep. For if after bleeding there comes watchfulness, the humors will be again inflamed, and the Patient grow worse.

Sleep is caused by repelling Medicines laid to the fore-head which are cooling and narcotick or causing sleep, which we shall mention hereafter.

When you cannot conveniently let blood, apply Cupping glasses with deep Scarrifications; first, to the lower; then to the upper parts: and also to the Thighs and other parts, without Scarrification.

Use Frictions in the same parts, and use Ligatures to the Legs for revulsion.

Apply Vescatories to the Shoulders and Arms.

Give every day a Clyster made of cold and moist things: For by these the Acrimony of the humors is qualified, and they are put downwards.

And they are thus made;

Take of *Marsh-mallow* Roots one ounce; the Leaves of *Mallows*, *Violets*, *Lettuce*, *Pellitory*, *Beets*, of each one handful; the flowers of *Water-Lillies*, and tops of *Dill*, of each one pugil; *Prunes* six: boyl them in *Barley water*; to one pint of the straining add of *Cassia* newly drawn, and *Diaprunes* simple, of each six drams; red Sugar one ounce; make a Clyster.

Use no Oyls in these kind of Clysters, because they will then inflame.

You must not purge in a primary Phrenzy, such a one as comes not from another disease, but it is good sometimes to purge when the Phrenzy comes upon a continual Feaver. For if there be an evil digestion or ill juyce in the body, and the Phrenzy begin: then the matter is wandering, and is taken for that which is called *Turgent* or abounding. And therefore by the Counsel of *Hippocrates*, *Aph. 22. Sect. 1.* is to be presently evacuated.

But the Purge must be made of cold things, with gentle, as *Senna*, *Rhubarb*, *Cassia*, *Tamarinds*, *Catholicon* and Syrup of *Roses*.

Presently

Presently after blood-letting you must use repelling Medicines, which hinder the ascent of humors, and cool the head, as Vinegar of Roses made of Oyl of Roses and Vinegar, in time past, but now we use distilled waters, and juyces of Herbs with it, and we repel and cool more or less, as there is a greater or less flux of humors and Inflammation, which we must diligently observe. Therefore we will lay down many forms that in particular cases we may chuse those which are most fit.

Take of Oyl of Roses three ounces; Vinegar of Roses one ounce; Rose and Plantane-water, of each two ounces. Lay them on the Forehead shaven, and with four-folded cloaths. Or,

Take of Rose-water four ounces, Oyl of Roses two ounces, Vinegar of Roses half an ounce; two whites of Eggs: mix them together. Or,

Take of Oyl of Violets and Water-lillies, of each half an ounce; Rose, Lettuce and Housleek-water, of each two ounces; Vinegar half an ounce. Or,

Take of the Juyce of Lettuce, Purslane, Nightshade, Penny-grass, or Venus-navil, of each two ounces; Oyl of Roses three ounces; Vinegar of Roses one ounce. Or,

Take of Oyl-Olive in which Roses are infused, one ounce and an half; new Poplar Oyntment (for the old inflameth) one ounce; Vinegar of Roses half an ounce; one white of an Egg. Beat them together, and apply them with Flax.

The Milk of a Woman which hath brought forth a Girl, with the Juyce of Lettuce and Oyl of Roses, is very excellent.

Concerning these cooling Medicines, you must observe, that they be administred warily, and with judgment, because the Brain is of its own nature cold, and a principal Member, therefore it is to be feared lest the Patient by too much use thereof should fall into a contrary Disease, as a Coma, or the like, especially if he be weak or old; and although they are used sometimes more, sometimes less, yet the extent of the time of their usage ought not to be above three days.

Moreover, Those Medicines do stick to the Face and Eyes, therefore you must lay about them a Cloth, or a little Wooll: in the forepart of the Head you must apply them to the middle of the Forehead; in the sides of the Head above the Ears; in the hinder part about the Nape of the Neck, and towards the Crown of the head: and these are in Winter to be applyed hot, in Summer cold, as Galen saith, 2. de comp. med. cap. 2. But it is best in old and weak people never to apply them actually cold.

If the Inflammation cometh to the Skin, as it sometimes doth, then we must avoid repelling Medicines, especially those that are strong, lest the matter driven to the Brain should augment the Disease.

You must apply Cloaths wet in Rose-water and Vinegar to the Neck, to hinder the humors from flying into the head.

Causticks applyed to the Legs do very well for Revulsion, or drawing down of the humor to the inferior parts.

While these things are doing, you must use all those things which do cool the whole Body, especially the principal parts both internally and externally.

Inwardly you must use Juleps, Emulsions and Electuaries.

Take of the distilled Water of Lettuce, Purslane, Roses, and wild Poppies, of each three ounces; Syrup of Violets and Pomegranates, of each one ounce and an half; Sal Prunellæ three drams. Make a Julep for three Doses to be taken twice or thrice in a day. Or,

Take of Lettuce, Purslane and Plantane, of each two handfuls; water-Lillies and Violet-flowers, of each a Pugil. Boyl them in Barley-water to one Pint, and being strained dissolve in it Syrup of Violets three ounces; Sal Prunellæ three drams. Make a Julep for three Doses or Draughts.

It is very good to put to your Juleps (besides the Sal Prunellæ) the Spirit of Sulphur, or Vitriol, for those do much allay the heat of Choler.

Take of the four great cold Seeds six drams; white Poppy-seeds two drams; Barley-water half a Pint; Lettuce and Water-Lilly water, of each two ounces; Rose-water one ounce. Make an Emulsion according to Art, to two Doses, putting thereto Syrup of Violets two ounces.

Take of Conserve of Violets and Roses, of each one ounce; Conserve of Water-Lillies and Candied Lettuce-stalks, of each half an ounce; the Powder of Diamargariton Frigidum, half a dram: With the Syrup of Violets make an Electuary.

You may also make an Electuary of white Poppy-seed beaten in a Stone-mortar, and mixt with Sugar; this may be called *Diasodium album*: this temperates sharp and hot humors, and brings rest; it is made of one ounce of Poppy-seeds beaten with so much Rose-water; after put two ounces of Sugar to it: Or make it of equal parts of each.

Outwardly you must apply cold Epithems to the Heart and Liver.

Take of Rose-water three ounces; Borage, Bugloss and Sorrel-water, of each two ounces; White-wine Vinegar half an ounce; the Powder of the three Sanders one dram and an half; of burnt Ivory

Ivory half a dram; Wood of Aloes one scruple; Saffron eight grains; Camphire six grains. Make an Epitheme for the Heart.

Take of Lettuce and Rose-water, of each three ounces; Endive and Purslane-water, of each two ounces; Vinegar of Roses one ounce; white and red Sanders and burnt Ivory, of each one scruple; Camphire and Spicknard, of each six grains: the Powder of Diarrhodon one dram. Make an Epitheme for the Liver.

Let the Liver and the Loyns be anointed with this Oyntment:

Take of the Unguent of Roses one ounce and an half; the Cerate of Sanders one ounce; the juyce of Lettuce and Oyl of Roses, of each half an ounce. Make a Liniment.

Let the Breast be anointed with suppling oyls, as oyl of Violets, and the like.

Apply Cloaths wet in Water and Vinegar to the Stones or Cods, or (which is better) let them be with Rose-water and Vinegar.

It is good to wash the Feet with an actually hot Decoction made of cold things, for it will soften those parts by its hot moisture, and make the humors descend, and its potential coldness will be communicated to all the Body, and to the Brain, especially by the Nerves, whereby sleep will be provoked. It is made thus:

Take of Violets, Mallows, Willow-leaves, Vine-leaves, Water-Lillies, of each two handfuls; the Flowers of Roses and Water-Lillies, of each one handful; Poppy-heads ten; Make a Decoction for the use aforesaid.

Fair water may suffice to wash the feet, and if the feet of the sick man be put therein when it is a little warmed for three or four hours, it frees him from his Delirium, and makes him sleep.

The same effect is wrought by Housleek beaten into a Cataplasm, and laid to the Soles of the Feet; and also by Pompions or Gourds beaten, and so applied.

Sweet Scents often applied to the Nose cool the Brain; they are prepared after this manner following:

Take of Violet-flowers and Water-Lillies, of each one Pugil; of Roses two Pugils; yellow Sanders one scruple: Tye them in a Clout, and dip it into Rose-water, and let the Patient smell to it often. Or,

Take of yellow Sanders, Roses and Water-Lillies, of each one dram; Camphire half a scruple; put them with Rose-water into a narrow-mouth'd Vessel. Let them boyl over the fire, and after let the Patient receive the Vapor at his Nose.

But because Watchings do chiefly trouble in this Disease, you must use all your skill from the beginning of the Disease to provoke sleep. For which the repelling Medicines before-mentioned are very good, especially if you anoint the Head with oyl of Violets cold, before you apply Rose-Vinegar, which is good against Watchings and Convulsions which come in this Disease. But the Medicines following will do it more powerfully;

Take of the heads of white Poppies with their seeds, in number six; the Flowers of Water-Lillies two Pugils; beat them together, and with Rose and Lettuce-water make them like a Pulstess, which apply to the Forehead between two Cloaths.

Note, That in Medicines to provoke sleep, you must use but little Vinegar, because it causeth Watching.

Take of Lettuce-flowers one handful and an half; Roses half a handful; white Poppy-seeds half an ounce: boyl them in Water till they grow soft; stamp them in Barley-meal and Womans Milk, of each half an ounce, and a little Oyl of Violets. Make a Frontal thereof.

Take of Oyl of Violets, Water-Lillies, and new Oyntment of Poplar, of each three drams; Opium and Oyl of Nutmegs, of each three Grains. Mix them into a Liniment to anoint the Forehead and Temples.

Great Housleek bruised with Womans Milk, and laid to the Forehead, appeaseth a Phrenzy, and provokes sleep. But as soon as the Patient begins to sleep, you must take it away, lest he fall into a Coma, or sleeping Disease.

Gourds or Pompions do the same thing with less danger.

Penotus doth extol this Epitheme.

Take of Musk twelve grains; Camphire twenty grains; red Rose-water in which Sanders hath been infused twenty ounces: Mix them. Shave the head, and wet double Cloaths therein, and apply them warm to all the Sutures of the head. When they are dry, wet them again, and continue the Application twenty four hours, and so doing you shall provoke sleep, strengthen the Brain, and wonderfully recover the Patient, except the very substance of the Brain be corrupted.

Inwardly you may give one ounce of Syrup of Poppies sometimes in his Juleps and Emulsions.

Or you may give four or five grains of Laudanum, which also given in a Clyster doth provoke sufficiently to sleep, and with more safety.

The Physician must be wary in the use of Narcoticks, or Medicines that provoke sleep; for they must

must not be given if the Patient be very weak, lest the Spirits and Natural heat be thereby extinguished.

Having sufficiently used Evacuations, Revulsions, Derivations and Interceptions, we must come to the bringing forth of the matter: And first, we must open the Forehead-vein if it appear and may be taken, not tying a Ligature about the Neck as usually they do, for so the blood will be forced upwards.

But you may with most profit open the Veins in the Nostrils, and if the Disease be any ways curable, it will be cured thus: You may bleed plentifully and betimes in the beginning of the Disease, after you have made general Evacuations. And they are opened with Bristles put up into the Nose, and pricking often therewith.

Or you may draw blood from behind the Ears, from the Nostrils, Forehead, Hemorrhoids, with Horse leeches.

Apply to the Head things that resolve, with things that repel, in that proportion, that first you use a little of the Resolvers, and as the Disease declineth, increase the quantity, so that at length you use only Resolvers to discuss the reliicks of the Disease. For this end we use Oyl of Camomel and of Dill mixed with Oyl of Roles.

But among Resolving Medicines, the chiefeest are Creatures newly killed and applied to the head, or pieces of them; as young Pigeons, Chickens, Puppies cut along the Back, and Sheeps-lights, for they fortifie the part with their natural heat, discuss the humor, and qualifie the sharpness thereof.

Which things if you have tryed one or two days, and have found no benefit, *Mercatus* teacheth to apply a Cupping-glass to the Crown of the Head, that the humors may breath through the Sutures into the Skin; and if it appear red and be swelled under the Cupping-glass to scarrifie. This Counsel he saith (if followed) will do good when all things besides fail, especially if you bath presently after with sweet Water in which you have boiled some discussing Medicines: But he adviseth that this be not used in Phrenzies that come from other Feavers, but only in that which beginneth of its self.

This Remedy is confirmed by *Zacutus Lusitanus*, who says, that he cured a most desperate Phrenzy, by applying a Cupping-glass to the fore-part of the Head with Scarrification.

Some are so bold as to apply Vesicatories or Medicines to raise Blisters to the fore-part of the Head, which they say hath sometimes had success: But this requires extraordinary premeditation before it be used.

For his drink, let the Patient use Barley-water, or water made of Sorrel-roots, with Syrup of Pomegranates, Barberies or Lemons; or let him drink this following Infusion.

Take of Spring-water two pints; the leaves of Sorrel and wild Poppies, of each half a handful; the Flowers of Borage, Water-lillies and Violets, of each half a Pugil: the Spirit of Vitriol one dram: red Sanders rasped two Scruples. Let them be infused for some hours cold, then strain them with a Cap-paper, and as much Sugar as is sufficient to make it pleasant.

There is in this Disease for the most part a stoppage of Urin, because the Patient neglecteth to make it; from whence those parts that contain it are distended, and bring so great Inflammation, that it alone is able to bring death to the Patient. Therefore you must often call upon the Patient to make water, and you must foment the place where the Bladder lieth with warm water, and drive the Urin forth by the compression of the hand. But if the Symptoms do not yield to these light Medicines, you must proceed to stronger.

Take of the leaves of Pellitory of the Wall two handfuls: Parsley with its Roots one handful: Boil them, and after they are strained, add three ounces of the Oyl of Scorpions, and foment the hairy place of the Privities therewith.

Let the remainder of this Decoction after the straining, be fryed in a Pan with the Oyl of Scorpions, and applied to the same part after the Fomentation.

If you desire a stronger Decoction, add the Seeds of Smallage, Parsley, Gromwel, Sefelis, or large and broad Cummin, of each two drams.

You may also profitably apply this following Oyntment after the Fomentation.

Take of the Fat of a Rabbet and Oyl of Scorpions, of each two ounces: Smallage-seeds, Parsley seeds, Asarabacca and Cummin-seeds finely powdered, of each half a dram. Make an Oyntment.

CHAP. XII.

Of the Imposthume, and Sphacelus, or Mortification of the Brain.

The Imposthume and Mortification of the Brain is described by few Authors, although it was observed by *Hippocrates* in his 3. Book of Diseases, and happeneth sometimes in Practice, and deluding those Physicians who are not well grounded, making them conceive it to be another Disease.

Now a Sphacelus or Mortification of the Brain is a Suppuration or corruption, or matter of the substance of the Brain, which is called a Gangrene, Syderation, or blasting of the Brain.

CAUSES. The immediate Cause whereof is an Inflammation of the substance of the Brain, which is distinguished from a Phrenzy is this: In a Phrenzy the Membranes are chiefly inflamed, and they do communicate an Inflammation to the external part adjoining; but in this Disease the inward parts of the Brain are inflamed, and the whole substance thereof is putrified; for so great an Inflammation in a most tender place and moist, will quickly produce a Sphacelus or Mortification.

The Cause of this Inflammation is blood over-heated or over-choleric, running into the body and inner parts of the Brain.

The Primary Causes are all such things as produce hot and much blood in the whole body which is sent to the Brain, as violent Exercise, the heat of the Sun, heat of the Head by Fire, Wrath, and the like: But great Wounds do more usually produce this Disease, as also Contusions. But a Sphacelus or Imposthume coming from a Wound or Contusion, is different from the former in this: An Imposthume made by a Fall or Contusion, doth not possess so many parts of the Brain, but for the most part adhereth to one. Hence the Symptoms are higher, especially in the beginning, and the Disease continueth longer.

SIGNS. The Signs of an Imposthume or Sphacelus which cometh without a wound or Contusion, are these:

In the beginning there is a great Head-ach, which is communicated by the hinder part of the head to the Neck and all the Back; after which comes a general decay of all the Senses both internal and external, as in an Apoplexy, from which it is distinguished by the Signs hereafter mentioned.

The Patient is tossed to and fro, and cannot remain in the same place; he layeth hold with his hands upon his head, and desires to tear and scratch his face, plucking his hair: but as the Disease increaseth, his body groweth faint, and he cannot use such violence.

A most sharp and strong Feaver always accompanieth this Disease, which comes from the great Inflammation of the Brain.

Lastly, In this Disease the Patient never takes Meat or Drink, neither can you take any course to give them any thing, and therefore their strength soon faileth.

An Imposthume by a Wound or Contusion is known by these signs following:

After the Wound or Contusion is received, there is a kind of numbness and sadness in the body, the Animal Spirits beginning to be weakned by the matter which is got out of its Vessel. When the Disease increaseth, there ariseth a kind of Feaver when the matter begins to putrifie, thence comes Head-ach and drowsiness; after, when putrification is increased, all the Symptoms grow stronger, the Feaver sharper; the Patient rising from sleep suddenly roareth out, and then presently lieth down again, he often brings his hand to his head: Hence it is, that many before they die do send forth filthy green matter out of their Mouth and Nose.

PROGNOSTICK. As to the Prognostick part thus:

This Disease is most dangerous, and commonly deadly, even in three days space, as *Hippocrates* sheweth in his 51 Aphorism, Sect. 7. saying, *That they who have a mortified and putrified Brain, die in three days, but if they live longer, they recover.* *Galen* in his Comments teacheth, that we are not to understand here by a Sphacelus, a compleat corruption of the Brain, because that is uncurable, but such as is at hand by reason of the great Inflammation.

In those which recover (who are very few) there is no remembrance of things past; they can neither remember their Disease, nor any thing concerning it.

CURE. We must make great hast for the Cure of this Disease, for if we do not apply Remedies in the beginning, there is no time for Cure.

Therefore in the first beginning of this Disease, we must let blood in great plenty, and very often twice or thrice, or four times in the same day, as strength will permit; for all the hope of the Cure lieth in this only Remedy: for when a great quantity of blood possesseth the substance of the Brain which is large, soft and moist, we cannot make so great a Revulsion from thence, except we draw

draw almost all the blood in the Veins : and here that common saying of *Celsus* is to be observed ; *Many things are done well in time of sudden danger, which at other times may be omitted.*

You must also give sharp Clysters every day, that the humors which tend upwards may be brought down.

At the same time apply those Medicines of Rose-vinegar prescribed in the Chapter of Phrenzy.

For the greater Revulsion and Derivation, apply Cupping-glasses to the Shoulders and Back, with deep scarrification ; use Frictions and Ligatures to the extrem parts : First, open the Arteries, then the Forehead, and the Arteries in the Temples, apply Horse-leeches behind the Ears, and to the Hemorrhoids, Vesicatories to the Neck and Arms, and other Medicines which we prescribed in the Cure of the Phrenzy.

At last, If the Disease decline, you must apply to the Head things that gently resolve ; among which, the best is the hot Lungs of a Sheep newly slain.

CHAP. XIII.

Of Mania, Madness.

Mania is *Delirium*, or a loss of Wits without a Feaver, with raging and fury.

It is distinguished from a Phrenzy, in that there is in a Phrenzy an acute Feaver coming from the Inflammation of the Brain and its Membranes ; but a *Mania* hath no Feaver in respect of its being ; but a Feaver may be joyned with a *Mania*, coming from some other Cause, but not from that which produceth a *Mania*. And therefore in a Phrenzy a Feaver is symptomatical, but in a *Mania* it is essential and original, coming from some other cause : And so is *Galen* to be understood, Book 3. *de loc. affect.* Chap. 7. where he saith, *The Melancholy Juice which is made of Choler burnt begets beastial Madnes, sometimes without, sometimes with a Feaver.*

It is distinguished from Melancholy by the Symptoms which declare the Disease ; for *Mania* is with fury and boldness, but Melancholy is with fear and sorrow.

CAUSES. The immediate Causes of a *Mania*, according to *Galen*, are a cold and dry distemper coming of the black Choler which is used with many difficulties.

For if there were such a distemper in the Brain, that it would disturb the Mind, it should produce a Feaver, when a less heat than will produce a Delirium, can produce a Feaver, as appears in those that are inflamed by the Sun.

To this doubt divers Authors answer diversly : The Answer of the most solid is, That the heat which produceth a Feaver must be smoaky, that the vapors sent to the heart may cause it, and this vaporizing heat ought to be in a moist matter, such as in putrid Feavers : but in a Madness the humors are adust and burnt, so that no vapors can arise from them. In one word they say, that the heat in a Madness or *Mania*, is as heat in a live Coal, but heat in a Feaver is as heat in the flame. And this Answer is urged with a strong Instance ; namely, in an Hætick Feaver there is more consumption of moisture than in a *Mania* : yet the Feaver continueth to the absolute consumption of all moisture, even Radical also, and the death of the Patient.

Platerus being perswaded by this and other Reasons, supposeth that besides the hot and dry distemper, there is a malignant and venomous quality, which is the chief cause of a Delirium. A great probability of this Opinion is, that a raging from the Mother comes from Seed corrupted and poisoned in that part. Because Hydrophobia or fear of water, which is a kind of *Mania* coming from the biting of a mad Dog, is caused in any constitution without the mixture of Melancholy : And the disease which comes from the bite of a Tarantula, is called a kind of madness. And lastly, certain poisons do cause madness, as is reported of the Brain of a Weevil and Nightshade. Therefore it is probable that some certain poison bred in the body may be the chief cause of madness : since malignant Feavers which are very mild, and so sometimes that the Pulse and Urin is like to those that are in health, use to produce Deliriums more than burning Feavers without malignity. And Experience teacheth us, that madness happens often not only in melancholy men, but also in all Natures and Ages, especially if it be hereditary, or come from Parents : and is often cured by hot Medicines which have special virtue against it. But we must confess that this Disease is oftneft in melancholy people, because that humor is more fit to receive such poison. And *Galen* seems to acknowledge that malignity to come upon melancholy, in his Comment upon Aphor. 56. Sect. 6. where he saith, *That the Cause of a Mania is a melancholy humor, not always, but when it is burnt above measure, or when it is putrified, and hath received a malignant sharpness.* There remains yet one difficulty, That mad-men can endure the coldest Weather naked without hurt, and to be hot externally, which shews an extraordinary heat. But we answer, that this is not proper to all mad folks, for some can-

not endure cold, but go as warm as they can. And the other are not disturbed with the external Air by reason of Custom, because from Custom there is no Passion: so we see tender Women in Winter go with naked Breasts, which are hot to the touch, albeit according to *Hippocrates* Cold is a great Enemy to the Breast.

The matter producing this Disease is contained in his Veins and Arteries, either of the whole body, or those nearest to the Brain, or in the Vessels of the Brain, and in respect of the difference of the place containing, greater or lighter symptoms do arise. Sometimes the matter causing this Disease is in the Vessels of the Matrix, as Blood and Seed corrupted; hence cometh the raging called *Furor Uterinus*.

If the matter offending be in all the Veins, or those near the Brain, there is a continual madness; but if it be shut up only in one part, the Disease hath intermission, and comes by fits.

SIGNS. The Signs by which it is known, sometimes shews the Disease to be present, sometimes that it is growing.

For the knowledg of madness to come, first consider the Natural disposition of the Patient, which is cholerick or melancholy. So in *Hippocrates*, 2. *Epid.* 5. *He who hath a Vein beating in his Arm is like to be mad, and is subject to Wrath; but he that hath it moving by degrees, is slow and stupid.* Here *Hippocrates* calleth Arteries by the name of Veins. For he doth not mean a simple but a violent Pulsation, unto which he opposeth that which is by degrees: So that the meaning of his saying is this; They who have naturally a high strong Pulse, great and swift, are inclinable to anger and fury, but they who have a slow Pulse are dull and blockish.

Secondly, You must regard the Sex, for Men are more often mad than Women; which is to be understood of the Original Disease of madness, for Women are often mad by consent from the Matrix.

Thirdly, The Age is to be considered, for madness comes oftner to young men, than to Boys and old men.

Fourthly, Mark the time of the year, It comes often in Spring, oftner in Summer, most often at the Fall of the Leaf, according to *Hippocrates* and *Galen*, *Aphor.* 20, 21, and 22. *Sect.* 3. In the Spring, the humors bred at other times, and kept all Winter quiet, are moved and stirred, and produce proportionable Diseases: In the Summer much Choler, not only yellow, but black is increased in them that are inclined to it, which causeth madness at that time; or else increasing till Autumn, the Disease comes then.

These Signs are more remote, and shew only in general a disposition to this Disease; but these following shew it to be at hand: Constant pain in the head, watching, short and little sleep, troublesome dreams, cares and thoughtfulness, frights from small causes, a rash and often fury from none or the smallest occasion, eyes not enduring light, noise in the Ears, an unaccustomed desire of Venerie, Nocturnal pollutions often, laughter unaccustomed and without Reason, much talk not formerly used, and sometimes much silence. These shew that a *Mania* is begun.

But that the *Mania* is present, you may know by the signs mentioned in the definition; namely, a Delirium without a Fever with fury and boldness: divers are the kinds of Dotage or Delirium in divers sick men, and at divers times they come according as the Cause is more or less vehement; for some have a rash madness, and seize upon every man they meet, tear their own Cloaths, sometimes lay violent hands to destroy themselves: Others are milder and tamer, and hurt no body, but speak distractedly and ridiculously, sometimes they sing, sometimes they laugh, and have divers whimsies, and Symptoms much like those in melancholy men and fools.

And from the variety of those Symptoms you may gather the variety of the Cause: For immoderate laughter, mirth and singing signifie that the matter offending is dashed with much blood: but wrath, restlessness, howling, striking, pale and yellow colour in the face, shew that Choler is in fault; but a furious madness that lays hold on all it meets, and sometimes stayeth them, comes from Choler burnt, which is called black Choler; but if this black Choler comes not of yellow Choler, but melancholy adust, the Patient looks furiously, sometimes is long silent, and then breaks forth into earnest discourse, they are unruly and untoward, and sometimes cry and lament grievously.

PROGNOSTICK. The Prognostick of this Disease is:

A *Mania* is a strong Disease, and continueth not only Months but Years, even to death, especially if it be Hereditary. All Diseases of black Choler are hard to be cured, and this especially, because the Patients will not be ruled, and take their Medicines prescribed.

A *Mania* which comes with laughter and those light Symptoms is easier cured than that which comes with sadness and fury.

That the Disease will shortly be cured, appears by Natural Evacuations, by Sweat, Stool, bleeding at Nose, or Hemorrhoids or Varices, or crooked swelling Veins appears; whence *Hippocrates*, *Aphor.* 21. *Sect.* 6. If Varices or Hemorrhoids come to Mad-men, the Disease is cured.

Bloody-flux, Dropsie, Tertian Ague or Quartan happening to a Mad-man, takes away his disease, for

for there is a remove of the humors unto the lower parts from the head, in which they produce a new Disease.

CURE. For the Cure of this Disease, the matter offending is to be evacuated, revelled, and repelled, the hot Distemper is to be corrected, the Brain and other principal parts are to be strengthened, which may be done by the means following:

First, Let blood out of the vein of the Arm which appears most, but give a Clyster before; the day after bleed again in the other Arm; and do thus often. For *Platerus* affirms, that innumerable mad folks have been cured by Chyrurgions, and others who have studied the Cure, and have let them blood twenty, or twenty six times, not only in the Arms, but Feet, Forehead, Nostrils, Hemorrhoids, if the Veins appear there, and also in the Hand, or *Salvatella*. This is to be done by degrees, intermitting Clysters, and purging Medicines here prescribed, Cupping-glasses to the shoulders and back with Scarrification, are to be applied after the other Veins are opened; as also Horse-leeches to the Temples, and behind the Ears.

And you must intermix Preparations and Purges proper for the matter offending when you let blood so often, and they must be continued long: for which use are all those which we have mentioned for preparing and purging of Choler, to which we may add these following, as being more excellent and choice.

Take of *Lapis Lazuli* one dram and an half; *Diagridium* half a dram; the best *Turbith* one dram, *Senna* half an ounce; *Epithimum*, and *Cream of Tartar*, of each two drams; *Cinnamon* and *Citron Peels*, of each one scruple; *Saffron* half a scruple. Make a Powder; the Dose to be given at once is one dram or four scruples, with any proper *Liquor* or *Broth*.

Take of black *Hellebore* one ounce; infuse it for three days space in four ounces of *Rain-water*: boyl them with a gentle fire to three parts; add to the straining of the best clarified *Honey* two ounces; and take one spoonful in fat *Broth*. Or,

Take of the Extract of black *Hellebore* half a scruple; *Syrup of Violets* one ounce. Mix them for one Dose.

All Medicines made of *Hellebore*; as the *Wine*, *Syrup*, and *Oxymel* of it are very good against this Disease.

Hence it is reported, That *Melampus* the Son of *Amythaon* the Physician, cured the Daughters of *Pratus* King of *Greece* with *Hellebor'd Wine*, when by madness they supposed themselves to be Cows.

Antimony in this Disease is not only commended by *Chymists*, but also by all *Galenists*, both in regard it doth discharge *Melancholy* from the whole body, and also because the Patients will be easily perswaded to take it. The dose is divers according to the diversity of the preparation of it.

Baths of hot water are to be often used, and after every Purge.

The order of Purging Medicines for this Disease is as followeth; First, Give altering *Apozems* that purge for three or four days together after you have let blood in both Arms. After give twice in a Week gentle Potions, Powders, or a *Magistral Syrup*; but give strong Purges only twice in a Month, letting blood constantly before, as is before-mentioned.

In the time of Intermision, use Baths, preparing *Juleps*, or altering *Broths*, as also strengthening *Opiates*.

Besides the vulgar *Juleps*, this following made of *Juyces* is very profitable;

Take of the *Juyce* of *Borage*, *Bugloss*, and *Paremain*, of each three ounces; *Fumitory* and *Succory-water*, of each four ounces; white *Sugar* six drams. Boyl, clarify and aromatize them with yellow *Sanders*; and take six ounces thereof Morning and Evening.

You may make *Opiates* as followeth:

Take of *Conserve of Roses*, *Violets* and *Bugloss*, of each one ounce; *Conserve of Tamarisk-flowers*, *Clove-Gilliflowers*, *Candied Lettuce-stalks*, *Citron-peels Candied*, of each half an ounce; one *Embllick Myrobolan* candied, *Confection of Alkermes* and *Hyacinths*, of each three drams; the Powder of the *Electuary* called *Diamargariton Frigidum*, and *Letificans Galeni*, of each one dram; *Coral* and *Pearl* prepared, of each half a dram; with the *Syrup* of sweet-smelling *Apples* make an *Opiate*, of which let him take the quantity of a *Chesnut*, drinking after it a little of his *Julep*, or of some other proper *Liquor*.

Tablets also may be made in this manner:

Take of *Confectio Alkermes* two drams; *Species de Gemmis*, and *Diamargariton Frigidum*, of each half a dram; *Sugar* dissolved in the *Juyce* of *Apples*, four ounces. Make Tablets of the weight of two drams, and give one for a Dose.

Sometimes we may try *Specificall Medicines* and *Amulets*, or things to be hanged about the neck: of which sort *Sennertus* hath many; but we will mention only one which in a Noble Family of *Montpelior*, is accounted as an *Hereditary Secret*, which is this:

Take of *Balm-flowers* one handful; chop them small, and infuse them in four Ounces of the Spirit of

of Wine; then add of prepared Pearl half a dram: mix them, and give two spoonfuls at a time; while you use these things, you must with all possible Art procure sleep by Medicines both internal and external, such as you have for the Cure of the Phrenzy.

And besides external sleeping Medicines, you must apply such Remedies outwardly to the head, which may temper and allay the vehement heat and fury thereof. And these must not only be cooling, but also more moistning and (in the beginning of the Disease) repelling.

Therefore in the beginning, Oyl of Roses, Violets, Dill and Camomel are very good: After you must leave out the oyl of Roses; but when you will cool more, you must add the Oyl of the cold Seeds and Poppies. And lastly, that they may be brought into the form of a Liniment, you may add Butter, or the Mucilage of Linseed or Fenugreek.

An Epithem thus made is very good:

Take of the water of Water-Lillies one pint; Sal Prunella one ounce; Camphire one scruple: Mix them, and apply double cloaths dipped therein to the fore-part of the head.

An Epithem of Sal Saturni, or Salt of Lead with Rose-water, is very profitable.

As also that which is formerly mentioned, made of Rosewater, red Sanders being infused therein, with Musk and Camphire.

The Chymists prefer the Balsom of Lead, and anoint the head therewith as with a Liniment.

But in the height of the Disease, it is very necessary to apply some Creature newly killed, or some part of it, and especially a Sheeps Lungs, which must be warmed again in hot water after it is grown cold.

Some use stronger discussients in the declination of the Disease, and also in the vigor of it after sufficient Evacuation; this following Fomentation is of wonderful virtue:

Take of the Head Herbs with their Flowers, as many as you think fit, boyl them in Spring-water; then take of Bay berries, and the Roots of black Hellebore, of each as much as will suffice: beat them grossly, and sew them into a long Bag, and then let it boyl in the Decoction before-mentioned.

Afterwards for nine days together, take two Pints of the Decoction, and foment the head being shaved, with double Cloaths for the space of an hour; after apply the Bag to the *Coronal Suture*, binding it about with Linnen Cloaths. Let the Patient lye down, and rest if he can: then will he purge by all the Emunctuaries of the Brain, and also somewhat by Stool; so will the filth sticking to his Skull and Brain be wonderfully dissolved, which few other Medicines can perform.

Lastly, Apply a Cautery to the *Coronal Suture*, which is much approved by *Gordonius*, who confirms the benefit of it by the History of a certain Mad-man, who had a wound in his head, with a Fracture of the Skull, and was very well as long as it was open, but still when it was healed, grew mad again.

Although the Brain be principally affected in this Disease, yet other parts are to be altered, especially the Heart and Liver, with Epithems and Liniments prescribed in the Cure of the Phrenzy.

CHAP. XIV. Of Melancholy.

M*elancholy* is a Doting or *Delirium* without a Feaver with fear and sadness.

It is distinguished from a Phrensie by want of a Feaver? and from Madness, by Fear and Sadness, because that comes with Fury and Boldness.

We say this Disease hath no Feaver; namely, of its own nature of its self: but a Feaver may accidentally be joyned with it. For nothing hindreth, but a continual or intermitting Feaver may happen to one in this Disease, but this Feaver will not be essentially in it, as in a Phrensie, where a Feaver is essential to the Disease.

But we may doubt how fear and sadness may be said to be the Essence of Melancholy; when we perceive that in many melancholick people there is much laughter and appearance of joy. For some laugh, some sing, some think themselves to be very rich Kings and Monarchs. We answer, That there are divers degrees of Melancholy, and divers mixtures of melancholick Humors with others; from whence come varieties of Passions, so that they who have much blood or flegm mixed with melancholy, may have joy and cheerfulness: but that Disease is not at that time a true Melancholy, but is more like Foolishness.

Also great variety of Doting ariseth from the various disposition of the melancholick Humor: Hence it is, that some think themselves to be Kings, Princes, Prophets: Others, that they are made of Glas, or Potters Clay; or that they are Barley Corns ready to be devoured by the Hens: Some think they are melting Wax, and dare not approach the Fire: Others, that they are Dogs, Cats,

Cats, Wolves, Cuckows, Nightingales, or Cocks, whose Voyces they imitate. Others fancy themselves dead, and will neither eat nor drink. Others dare not piss lest they should drown the World by a second Deluge. Some think they have lost their heads, or some other member, or that they carry the World upon their fingers-end, or that they have Sparrows in their heads, or Serpents, Frogs, Mice, and other Creatures in their Bellies.

CAUSES. The Immediate Cause of Melancholy (that I may use the words of *Galen*) is a dark spirit or vapor very black; for when the Animal Spirits ought in their own Natures to be pure thin and transparent for the cheerful performing of the Actions of the Brain, and to cause cheerfulness if they change their constitution, and become dark and obscure, they produce sorrow and fear. *Galen* in his 2. *de sympt. caus.* chap. 6. by an example borrowed from external darkness, doth explain the matter: *Of those things (saith he) which are without the Body, we see nothing that doth more terrifie us than darkness; therefore when darkness doth encompass the rational part of Man, it is necessary that that man should exceedingly fear who doth always carry about with him another cause of fear besides that which is external.*

The Cause of this evil disposition of the Spirits is a melancholick Humor, which being possessed with thickness darkness and blackness, doth infect the Spirits, and makes them cloudy and dark.

And this melancholick Humor is cold and dry, and therefore proper for fixing and condensing of the Spirits, which fixing and condensing or thickning of the Spirits must needs cause sorrow and heaviness: For if the humor be thin and hot as is black Coler, (from which comes madness) it doth rather produce fury and boldness than fear and sorrow. Therefore the immediate cause of melancholy is thickness and darkness of the Spirits Animal; but the necessary condition, and without which it cannot be, is a cold and dry distemper. But if any shall instance of an Hypochondriack Melancholy from *Galen's* third Book, *de locis affectis*, chap. 7. That it is an Inflammation in the Hypochondria, and therefore the hot distemper doth prevail. We answer, That that inflammation or burning of the Hypochondria comes from the heat of blood long retained in the Spleen and Meseraick Veins by reason of Obstructions, from whence many vapors are sent up into the Brain, which though they be hot, yet are overcome by the coolness of the Brain, and are easily brought to a cold and dry temper which is proper to melancholy. But if the heat of those Vapors be such that they spoil the temper of the Brain, and make it hot and dry, then comes madness and not melancholy. So that in Madness or Mania and Melancholy, there is this difference: that in the first, namely, *Mania*, there is a hot and dry distemper: In the other, called Melancholy, a cold and dry distemper.

The former mentioned darkness of the Spirits confirmed by *Galen* is rejected of *Averroes* in this respect, Because darkness brought upon the Animal Spirits, and the black Choler of a melancholick humor cannot infect the Internal Senses: according to that vulgar Axiom, There is nothing in the Understanding which was not first in the Sense: therefore since that black Choler, or Internal darkness was not first represented to the eyes, it cannot be perceived by the Internal Senses. We answer, That the blackness of a melancholick humor, or the darkness of the spirits doth not affect the Internal Senses under the notion of colour: but as they are somewhat besides Nature in the Brain hindring its Actions. For the Animal Spirits for the perfect performance of the Actions of the Brain, ought to be pure, thin and clear. But if (on the other side) they be impure, thick and dark, they hinder the Actions of the Brain by infecting the Species which are sent thither, even as a coloured Glass doth represent the Species of the Object to the Eye with its own tincture.

A cold and dry distemper, which is propounded for a necessary condition to this disease of Melancholy, may be opposed by this Argument taken from *Avicen* in *Fen.* 1. *Lib.* 3. *Traet.* 4. *Chap.* 18. he saith, *That Stammerers are for the most part melancholick.* But these Stutterers are very moist in temper, according to *Galen*, *Comment.* *Aphor.* 32. *Seet.* 6. where *Hippocrates* saith, *That Stammerers are most subject to looseness: And Galen thereupon saith, That Stammerers have the moistest temper, as appears in Children who are most subject to looseness.* We answer, That *Avicen's* Text is not to be understood of those which are true Stammerers, which cannot pronounce the letter R, of which *Hippocrates* and *Galen* spake in the *Aphorism* aforesaid, who are of a moister part: But of those which are called *Trauli* and Stutterers, which repeat the same syllable very often before they can pronounce a whole word, which comes from their head long fancy when they strive to speak very quickly, for then the tongue foldeth its self, and is constrained to stop and stay in the production of words; And these Stutterers are of a melancholick temper.

Lastly, It may be doubted, how darkness of the Spirits should be an immediate cause of a melancholy *Delirium*, when every hurt action depends immediately upon some disease; but this tenebrosity or darkness can be referred to no kind of Disease. We answer, That tenebrosity or darkness is a disease in number, by reason that the coming thereof doth increase the number of those things which are necessary in the Brain for the performance of Animal Functions: And the instance which may be brought against this Argument, namely, That a Disease is an affect of a true part, is answered in the Treatise of *Vertigo*.

SIGNS. The proper signs of Melancholy are propounded in the Definition, namely, Fear and Sorrow, without any manifest Cause, which are found in every kind of Melancholy. But the severall sorts of Melancholy are known by their proper signs: So these following signs do shew that Melancholy doth only reside in the head, namely, an evil habit of the Brain, or hot diseases going before, by which the blood contained in its Veins is torried and burned, and at last brought into a Melancholick humor. Short and interrupted sleep, troublesome Dreams, giddiness, noise in the Ears, and no symptoms from other parts, and especially from the Belly.

That this Disease cometh from the whole body, appears by a Melancholy habit of the whole body either Natural, known by a black colour, roughness and leanness; or Acquisite, coming by Cares, Labors, Watchings, course diet and the like.

That it comes from the Hypochondria, these signs declare; Heart-burning with no thirst, often spitting, sour belchings and windy, Eruptions upwards and downwards, rumbling of the Guts, pain and heaviness of the Midriff, perplexity, nausea, sometimes insatiable appetite, heart-bearing, sometimes a swelling in the Hypochondria: And other signs which shall be shewn more at large in the Discourse of Hypochondriack Melancholy.

That this Disease comes from the Womb, may be known by those which are set down in their order for the declaring of Hysterical Diseases.

PROGNOSTICK. The Prognostick of this Disease is thus:

The Disease is dangerous if Chronical, of long continuance and very fixed: For a melancholy humor, especially that which comes by Aduision and inclineth to black Choler, contemns the force of Medicines if weak, and opposeth the strongest; whence a melancholick humor is said to be the scourge and disgrace of Physicians.

But a new sprung Melancholy coming of immediate Causes, is easily cured: For *Galen* reports in his third Book, *de loc. affect. chap. 7.* That he hath often cured a Melancholy in the beginning with onely Baths of sweet Waters.

The Hemorrhoids or Piles coming upon Melancholy men, sometimes they Cure, if the Humors be cast down thither critically by Nature; for sometimes they come symptomatically, and multiply the matter of the disease in many parts.

Sometimes it is cured by flux of the Hemorrhoids, by Scabs, Itch or other diseases breaking forth of the Skin.

CURE. As to the Cure of it, from wheresoever the Disease took its Original; we must observe always two things.

First, That the whole body be freed from a Melancholy humor, and the filth of other humors; for it seldom happens that one part alone is troubled with it.

Secondly, that the main Cure be directed to the Hypochondria, because that in the Spleen and Liver there is the first generation of Melancholy, and the gathering of it is in the parts thereabout; therefore the Cure of Hypochondriack Melancholy set down by us, will serve for the Cure of other Diseases of Melancholy; for you can scarce cure the Hypochondria from the abundance of any humor, and the generation of any new, but by consequence the whole body must be cured of the same. Therefore for all diseases of Melancholy, those Remedies will suffice which are propounded in the Cure of Hypochondriack Melancholy.

CHAP. XV. Of a Catarrh, or Defluxion.

A Catarrh is a preternatural Defluxion of an Excrementitious Humor, from the head into the inferior parts. It is therefore a Symptom of the third kind, namely, a fault in the Excrements.

The substance of the Brain being large needs much nourishment; of whence comes necessarily abundance of Excrements, especially by reason of the cold and Moist Distemper of the part, which Excrements if they have only their moderate and natural quantity are received into the fore-Ventricles of the Brain, and are sent by the *Choana*, as by a Funnel to the moist Glandels, and so are spit forth every day from the Palate; but if they grow more plentiful, and yet consist in their natural condition, they are dispersed about the Brain and *Meninges*, and so are sent forth, not only by the Palate, but also by the Nostrils.

But when the Brain is affected with distemper and weakness, or is constrained to receive too much and disproportionable nourishment, which it cannot sufficiently concoct, there is great increase of Excrements. Add further (as *Hippocrates* saith) That the Brain like Cupping-glasses applied to the body, never ceaseth to attract humors and vapors from the inferior parts; hence the excrements are increased,

creased, which by their quantity and quality provoking the expulsive, and overcoming the retentive faculty, run immoderately by unusual and improper ways which they find out, to the great disturbance of the body.

Since then a Fluxion is the motion of matter from one part to another, we must consider in that as in all motions, five things: The *terminus* or place from whence, the place to which it moves, the Mover, the Moved, and the ways by which it is moved. The place from whence, is the Brain; the place to which, is some part beneath the Brain; the Mover is the expulsive faculty stirred up, or the retentive weakened; the thing moved, is an excrementitious humour; the way by which, is the Palate, Nostrils, Eyes, Ears, and insensible passages, as also the Veins, Arteries, and Nerves.

CAUSES. In the place from which, or the part which sendeth forth, we may observe two kinds of Causes: One is that which begetteth much moisture in the body, the other is that which makes the humours flow: that is called the generating, this the expelling cause.

The generating causes consist in the hindring of Concoction, which comes either from the fault in the nourishment, or in the faculty.

The Concoction of the Brain is hindered chiefly from distemper either cold or hot.

A cold distemper causeth that the nourishment brought to the Brain is ill concocted and turned into flegm; as also that the Vapours brought from the inferiour parts are not sufficiently discussed, but are turned and condensed into water.

But a hot distemper doth attract more plentifully nourishment and vapours, so that Nature cannot sufficiently discuss them.

The Concoction of the Brain is hindered through the nourishment, either when there is too much, or when it hath evil qualities; so cold, gross, and slimy meats and drinks immoderately taken cannot be perfectly concocted, and make the Brain crude and moist. So sharp and windy nourishment send many vapours to the head.

To these you may adde external causes, which use to fill the head with superfluous humidity, as Southernly Air, long sleep, especially at Noon, idle life, and the like.

Although the Brain be called the chief sending part, yet is not always the chief cause of defluxion; but for the most part the matter is sent from other parts to the Brain: for after evil humours are collected either in the Veins, or any peculiar part, as the Liver, Spleen, Mesentery, Womb, not only many Vapours are sent from them to the Head, but also the humours themselves are carried to the Head, and descend again to the inferiour parts: and the fault lieth most in the inferiour parts in the breeding of a Defluxion, whose distemper is divers; and the Obstruction also divers.

For a hot distemper of the Bowels makes abundance of vapours, from which comes Defluxion, as in a Still or Alembick: but a cold distemper by weak decoction begets crude humours, which upon the least occasion fly to the brain.

But the Obstructions of the parts of the lower belly hinder the voiding of Excrements, whence it comes that they being increased by degrees, when they cannot find their free and ordinary course fly up to the Brain. And to this doth also concur the weakness of the Brain, fit to receive these Excrements, for (as we said) the stronger parts do disburden themselves upon the weaker, and it often happens that the Brain by reason of its soft and loose substance is weakest, and can less resist than solid and compact substances.

The impulsive Causes are too much heat of the Brain or coolness, or some concoction of humors; too much heat doth extenuate and diffuse the humors contained in the Brain, and opens the Pores by which they use to flow: such is the heat of the Head with the Sun or Fire, or too much covering, smelling of hot Spices, and other passions.

Coldness doth compress the Brain, and strains forth the humour therein contained, as a Sponge is squeezed in the hand. Such change is often in Winter, and especially in sudden alteration of Air: as when a Southern Wind hot and moist is turned into a North Wind cold and dry; or when one going out of a hot place comes speedily into a cold. To these causes you may add coldness of the Feet, which by sympathy is communicated to the Brain.

Many there are who deny the aforesaid compression of the Brain by cold, because cold doth incrassate and condense the humours, and makes them less apt to flow: neither doth the example of a Sponge prove any thing, which will not empty it self in the Air. But this Opinion delivered by Hippocrates in *lib. de loc. in homine*, seems to be true; Fluxions (saith he) come of cold, when the flesh and veins of the Head are extended; for those when the Head is cold and contracted, bound together and excluding, do strain forth moisture. And also the flesh doth assist them, and the hairs are on end, as being every where strongly pressed; and therefore whatsoever is strained from thence falls where it is occasioned. From whence it is manifest, that a contraction and compression of the parts may be made by cold, and from thence a humour may be expressed. Neither doth it hinder that densation or thickning of humours, which is made by cold, as we said; for it may be so when the whole body is equally cold. But when the external parts are offended by sudden cold, they are pre-

sently strained, and strain the humour contained. Of less force is that argument against the Sponge, that it is not expressed by the cold air; for there is another reason to be given of living parts, whose heat and spirits fly from the fence of cold, and cause the parts wherein they are to be contracted, which cannot be in a Sponge full of water. Yet we must confess, that this is not the onely way by which a Defluxion comes through cold; for cold of the feet will produce a Catarrh, by communicating a cold distemper to the brain by the chiefeft Nerves that come through the marrow of the back bone; and this coolness goes into the innermost parts of the brain, not the external, as cold air, which affects the head immediately: therefore we may rather think in this case, that the Retentive Faculty of the brain is weakned by cold of the head, so that it cannot contain the superfluous humours which are many, but lets them flow forth.

There is also another way very usual, by which a Catarrh of a cold cause cometh, namely the stoppage of the external Pores, especially in the time wherein the body requireth most sweat. Hence it comes, that men very much inflamed, running suddenly into the cold air, are troubled with Catarrhs. So Catarrhs come to be most frequent in Autumn, because the body being made thin, and the Pores opened in the Summer, casting forth many excrements by insensible transpiration, if they be presently stopped by contraction of the body with cold, do cause humours and vapours to fly into the head and centre of the brain. So about the beginning of Autumn there are not onely Catarrhs, but also abundance of watry humours are sent forth by most men in their Urine and by Stool, which cause Fluxes of the belly at that time. But if any ask why Defluxions do not last all the Winter, when by reason of cold the Pores are always stopped: We answer, That Nature doth in Winter discharge her self by other ways rather than by sweat, namely by Stool, Urine, and Spittle. How great that Evacuation is which is usually by insensible transpiration, is pleasantly taught by *Sanctorius*, in his book *de Statica Medicina*, where he saith, That it is larger than all the sensible Evacuations put together; so that if the meat and drink of one day be eight pound in weight, the insensible transpiration will be six pound: he is very curious in this matter. What light he hath left to the finding out of Causes, and curing Diseases, I leave to be judged by the Learned.

In the part receiving you must consider the imbecillity, or other disposition to receive and attract Defluxion. In regard of weakness it is an usual saying among Physicians, That the stronger part do always lay the superfluous burden upon the weaker; as in Commonwealths the great ones lay the chiefeft burden upon the poor Commons.

Now the weakness of the parts is either Natural or Adventitious. A natural weakness comes from the softness and looseness of the parts of the Glandules and Lungs, which do easily entertain Defluxions: but adventitious weakness is from a distemper, or from solution of continuity. A cold distemper by weakning the native heat causeth the part to have less power to resist the humour flowing unto it. And a solution of continuity or wound makes the part more fit to receive Defluxions by its weakness: hence arose the use of Cauteries or Issues, because the part being thereby weakned, the humours do flow from the other parts unto it. And so the Lungs being ulcerated, receive the humours from the head, and from all other parts.

Among other dispositions for the attracting of a Defluxion heat is chiefly to be reckoned; for we may observe, that parts inflamed do plentifully attract humours. So in a Consumption many humours are drawn from the Head to the Lungs, not onely by reason of the Ulcer, but also by reason of the Inflammation. Whence *Hippocrates* speaking of a *Phthisis* or Consumption in his first book of Diseases saith thus, *The Lungs being inflamed draw humours from the whole body, and especially from the head, and the head being made hot from the body, spits forth that thick matter.*

There are two ways by which the humours are carried from the head into the inferiour parts, either internal or external. The internal way is when the humour flows from the parts under the Skull, chiefly from the Ventricles of the brain, and makes divers diseases and symptoms according to the diversity of the parts receiving, of which some have peculiar names, according to the vulgar Verses in *Schola Salerni*:

*That Rheum is call'd Catarrhus which doth fall
Upon the Breast, upon the Jaws we call
It Branchus, Coryza through the Nose doth fall.*

When the humour flows upon the Breast, the disease keeps the general name of a Catarrh or Defluxion: when it falls upon the Jaws, and *Aspera Arteria* or rough Arteries, it is called *Branchus*, *Raucedo*, or Hoarseness: when it flows into the Nostrils, it causeth not onely a *Coryza* or Murrh, but *Ozana* or *Polypus*. But in other parts it produceth various effects: if it fall upon the Nerves, it produceth a *Torpor* or Numbness, a Palsie, Convulsion, Trembling; if in the Ears, Deafness, Swelling; if in the Eyes, Ophthalmie or Inflammation, Tears, Blindness; if upon the *Uvula* or Palate, Swelling, Looseness or Laxity, or Ulcer; if in the Throat, the Quinzy; if on the Lungs, the Pleurisie, Inflammation or Imposthumation, Cough, Shortness of breath, Spitting of blood, Consumption; if into the Stomach, Vomiting, Want of appetite; if into the Bowels, it causeth *Diarrhaea* and Dysentery;

sentery : therefore it is rightly conceived, that the greatest part of diseases that trouble Mans body have their original from the Head.

Moreover, sometimes the humour flows from the Brain with the blood into the Veins, whence comes the disease called *Febris Catarrhalis*, when Nature is strongly moved to expel the superfluous humour, and the Spirits being thereby much disturbed are inflamed, and cause a Quotidian Fever : hence it is that a Defluxion is reckoned among the Causes of a Quotidian Fever. And always before the coming of the Joynt Gout or Inflammation called Erysipelas such a Fever doth precede.

The external ways by which the humour flows from the Head, are those which are without the Skull under the Skin; and *Fernelius* supposed, that the humours were chiefly carried between the flesh and the skin, although by the continuity of the Muscles, Membranes, and Nerves, as also the Veins and Arteries, the humours use to flow into the Eyes, Teeth, Jaws, Neck, Shoulders, Joynts, and other external parts.

DIFFERENCES. Some Authors make difference of Catarrhs, which are these ; some are called *Ferini* or wild, some suffocating, some epidemical or common.

A wild violent Catarrh is that which by its sharpness ulcerateth the Lungs, and brings a Consumption, and it comes of a sharp and salt humour rising from a hot Liver, and is sent into the brain, and from thence into the Lungs.

A suffocating Catarrh is when the humour flows violently into the hollow of the Lungs, and is still renewed to the danger of strangling.

Lastly, an epidemical Catarrh hath a malign quality, and is common among the people, and comes from the corruption of the Air.

DIAGNOSTICK. The knowledge of this disease is from three signs ; of the Subject, of the Disease, and of the Cause.

The subject or body apt to fall into a Catarrh is known by the slender fabrick of it, easily pierced with either hot or cold air ; as also by the too compact fabrick of it, which hindereth a free transpiration, as also a weak and cold brain, which cannot discuss the vapours which are sent unto it, or sufficiently concoct its own nourishment ; as also a hot brain that attracts too many vapours : also the contrary actions of the Stomach and Liver, when one is hot and the other cold.

The Signs which shew the Disease either declare it to be coming or present.

The aforesaid Causes shew it to be coming, but especially heaviness in the head, dulness and numbness of the senses, long sleep, much snorting, a snotty Nose, and more spitting than usual, costiveness of body, and abundance of wind.

The signs of a Catarrh present are manifest, for either the humours flowing from the brain is plainly seen, or the swelling and pains which it produceth in divers parts.

The Signs of the Causes are also evident ; for if a Catarrh come of a cold humour, there will be sense of cold, paleness of face, sweet spittle, sour belchings, slimy matter or watery, and a general flegmatick habit of body.

But that the humour distilling is hot, appears by redness of the face, thirst, saltness and sharpness in the mouth, inflammation, pain, and ulcers in the parts affected, and a cholerick habit of the whole body.

An external defluxion is known from an internal, in regard the pain is more external in the former, especially under the skin of the Crown of the Head, where sometimes you may perceive a soft tumour, often a painful combing back of the hair : and many times the humour is felt to fall down upon the outward parts with great pain, heat, or cold.

PROGNOSTICK. The Prognostick of this Disease is elegantly laid down by *Cornelius Celsus*, in these words : *If the Humor flow from the Head into the Nose, it is small ; if into the Jaws, it is worse ; but if upon the Lungs, it is worst of all.* But *Hippocrates* saith, That a Catarrh is very hard to be concocted in those that are very old.

Where there is a great plenty of Humors, either from Repletion or from evil Concoction, there is a dangerous Catarrh, for it is to be feared lest the Humor flow suddenly, and cause Suffocation, or some other grievous accident.

CURE. The Cure of this Disease is twofold, The one is of the Cold, the other of the hot Catarrh.

The whole Cure of a Catarrh consists in the preparing and evacuating of the Humor offending, and in the revelling of it, if it flow to the Breast or other part, and the stopping of its motion, and after let the Distemper of the Brain be amended.

First then, If the matter be much, and flow very violently, and we fear lest it flow also from other parts, especially if the Liver be hot, (for it is often seen that men subject to Catarrhs have a hot Liver and a cold Brain) we must breach a Vein ; but if the matter be but little, and move gently, and the party be aged, and the temper of the Liver not hot, so that there is no suspicion for Humors to be sent to the Brain from any other parts, you may omit Phlebotomy.

The matter offending is first to be diminished with a Potion or Pills, or other purging Medicine, mentioned in the Chapter of the cold distemper of the Brain.

Afterwards the remainder of the humour is to be prepared with an Apozeme there also mentioned; or if you fear not to disturb the humour too much, you may give a purging Apozeme, and at last make a complete Evacuation with stronger Pills or other Purges.

If the Catarrh be very strong, you may give that which will powerfully root out the matter.

Colloquintida is very excellent to purge the Brain strongly, but it worketh very violently, and is offensive with its bitterness; both which faults are corrected by steeping it in Urine, for so it lays aside its bitterness, and becomes almost without taste, and also is so gentle, that it may be given to the quantity of a Dram safely: and it is a most gallant Remedy for all cold Diseases in the Head.

It sometimes happens that Excrementitious Humours sent from the parts beneath into the Brain, produce a Catarrh; and they find a preternatural course that way, by reason the natural course by which those humours use to be evacuated, is stopped; and then the Catarrh is best cured by opening those ways with gentle, mild, and constant purging, that the humors flowing upwards may be so sent downwards, and by degrees brought to their proper motion. And these gentle Purges may be made of Decoctions of Broths long continued; but in the mean while you must not neglect strengthening Medicines.

For Revulsion apply Cupping-glasses and Vesicatories, or things to cause Blisters to the Neck and Shoulders, and make Issues in the hinder part of the head and arms. *Zacutus Lusitanus in lib. 2. Praxis admiranda, observat. 160.* commends Issues behind the ears for the best remedy against all Distillations from the head: and we have seen good success by them, especially in Defluxions upon the eyes. You may use Errhines, Neefings, Gargarisme, and Masticatories, but with this caution, that you use Errhines and Neefings onely when the Catarrh falls upon the Jaws, Lungs, and Stomach; but when it falls into the Eyes or Nose, use Masticatories or Gargarisms.

The forms of all these Medicines were set down in the Chapter aforegoing; but observe in the use of them, that when the matter is somewhat thin you use not strong Discussients and Dissolvers, for by these you shall cause the humours to flow more violently upon the Breast, Lungs, or other parts; but you must mix some thickning things that may restrain the humour, as red Roses, Mastick, Coriander, Nutmeg, and other things which we shall declare more at large in the hot Catarrh. You may make an Errhine for this purpose as followeth.

Take Marjerom water four ounces, the juice of Betony one ounce, Nigella or Gith-seeds powdered half a dram, Nutmeg one scruple. For rich people you may adde two grains of Musk and Amber-greece. Or,

Take of Lignum vita one ounce; Spring-water one pint: Infuse it all night upon warm embers, then boil it to the consumption of half, adding in the conclusion sweet Marjerom, and red Rose-leaves, of each two pugils.

So when the matter is but thin, you may make a Mastictory either of Mastick alone, or after this manner.

Take of Nutmeg one dram, Mastick and Gum Arabick of each half a dram: Powder them, with Rose-water make Troches to chew.

The best Neefing is made of black Hellebore and Sugar, equal parts.

The Extract of Tobacco made in *Aqua vita*, and held under the Tongue in the bigness of a Pease, brings forth abundance of water; but if you take too much, or swallow it down, it will cause violent Vomiting. We have shewed that Cauteries to the Arms, hinder part of the Head, and behind the Ears, are very good, as also to the nape of the Neck and Shoulders, which are now adays in great request. But there is a new place found out by some, namely in the Neck near the Jugular Veins between the Muscles; and by this means two men have been cured of old Catarrhs which caused hoarseness.

Finally, after convenient Evacuation, things that strengthen the brain, and dry it, are to be used both internally and externally, as Opiates, Powders, Bags, Fumes, described in the Cure of the cold distemper of the Head. But you must remember to put unto them some Conserve of Roses, Nutmeg, or white Frankincense, when you cure a Catarrh.

The Decoction of Mastick wood used as a Sudorifick dries the brain, and stops defluxion: for which the following things are good.

Take of Coriander-seed prepared half an ounce, Nutmeg and Frankincense of each three drams, Liquoris and Mastick of each two drams, Cubebs one dram, Conserve of red Roses one ounce, white Sugar dissolved in Rose-water ten ounces: Make a Confection in little rolls weighing three drams. Let him take one morning and evening.

These following Troches are much commended by *Solenander, Conf. 10. sect. 4.* which he borrowed

which he borroweth from both the Antient Greeks and Arabians.

Take of the best Frankincense and juyce of Liquoris, of each one dram: Opium, Saffron and Mirrh, of each one scruple: With Syrup of Poppies make Troches, or Pills to be taken now and then, two scruples, or half a dram at a time.

These Tablets following are very good:

Take of Diambra and Diamoschu dulcis, of each one dram: white Amber one scruple: Oyl of Annis-seeds three drops: Sugar dissolved in Lavender water four ounces. Make Tablets of two drams in weight; take one Morning and Evening.

The Balsom for the head prescribed in the Chapter for the cold Distemper, after the Opiate, is excellent taken inwardly, and into the Nostrils.

Lac Sulphuris, and the flower of Brimstone are commended by Chymists for the Cure of a Catarrh, and the Galenists use it much in Tablets.

In a new Catarrh, Water of Nuts with Hydromel, given three Nights together doth much hinder it.

Shave the fore-part of the Head, and apply a Cataplasm of two ounces of Leven, and two drams of Amber: But if the Patient will not permit his Head to be shaved, let it be cut, and lay a Bag of Chamepytis or Ground-pine mixt with Amber.

Besides the afore-mentioned Fumes, one made of Tacamahaca is excellent, for it drys a Catarrh and hinders the motion; neither is the Scent too strong, but the Patient may shut it into his Chamber without offence.

It is profitable to dry the Head with Bags of Bran, Gromwel and Salt, Leaves of Sage, Betony, French Lavender, Annis-seeds, Fennel-seeds and the like.

Lastly, If the disease be stubborn, all those Medicines which are mentioned in the cold Distemper of the Head, are to be used.

A hot Catarrh is cured by Medicines which discharge the matter offending, and which doth thicken it and revel it; as also by correcting the distemper of the parts sending and receiving it.

For this end, first let blood, if nothing hinder, by which the humor flowing is revelled, and the sharpness abated.

Then carry away part of the humor by a gentle Purge which may no ways stir violently the humors as followeth:

Take of the best Rhubarb four scruples: Citrine Myrobalans rubbed with Oyl of sweet Almonds, half a dram: yellow Sanders half a scruple: Infuse them in Lettuce and Purslane-water, and strain it, adding of Manna and Syrup of Roses Solutive, of each one ounce. Make a Potion.

Or instead of the Waters afore-mentioned, you may make a Decoction of cold Herbs and Tamarinds, to which you may put your Purgatives.

Then you must alter and thicken the Humor with convenient Juleps.

Take of Lettuce, Purslane and Plantane, of each one handful: the four great Cold Seeds, white Poppy-seeds, of each two drams: Violets, Water lillies and red Poppies, of each one Pugil; boyl them to a pint: dissolve in the straining the Syrup of Violets, and dried Roses, of each one ounce and an half. Make a Julep for three draughts, to be taken twice in a day.

Or instead of this Decoction, use the distilled waters of those Herbs, or Emulsions of the four great Cold Seeds.

After use a little stronger Purge, putting to the former Senna, or Catholicon, or Diaprunes or the like.

A light sweet Medicine thickning and sweetning the Humor, is made of the Yelks of two new laid Eggs, dissolved in five or six ounces of Spring-water, with one ounce of Sugar, heat them well, and stir them upon the fire, and take it as hot as you can Morning and Evening for three days together.

And at last you must labour for a stronger restraining of the Flux, and thickning of the humor with this Syrup.

Take of Syrup of Violets and dried Roses, of each one ounce: Syrup of Poppies half an ounce. Give an ounce at a time in a Spoon at Bed-time.

The following Opiate is good for the same purpose:

Take of old Conserve of Roses six drams: the Species of Diatrageacanth frigid two drams: Bole-armeniack washt in Rose-water, two scruples: With the Syrup of dried Roses make an Opiate. Take the quantity of a small-Nut at Night.

This Barley Cream is very profitable:

Take of cleansed Barley as much as is sufficient, steep it six hours, and then boyl it well and strain it; then take three ounces of blanched sweet Almonds; Pompion-seeds husked, one ounce and an half; Melon seeds one ounce; white Poppy and Lettuce, of each half an ounce. Beat them together

gether, and with Barley-water take out the Milk, which with two pound of the Pulp of Barley boyl a little and mix it with Sugar, Let him drink ten ounces at a time some Mornings in his Bed, and sleep after it, and sometimes in the Evening: And hold frequently the following Troches in the Mouth.

Take of Gum Tragacanth and Agarick, of each two drams: Bole-armeniack and Terra Sigillata washed in Rose-water, of each one dram: white Poppy-seeds and Juycce of Liquoris, of each half a dram: Sugar-Penids one ounce. With the Mucilage of Quince-seeds extracted with Rose-water, make little Cakes to be held in the mouth day and night.

The Spirit of Sulphur and Vitriol, three or four drops given Morning and Evening in convenient Liquor, hath great force against all Catarrhs, especially against those which come from Inflammation of the Bowels: It may be given in drink in a smaller quantity, for it goes with the Drink through all the Veins, and hinders the motion of humors.

The Crystal Mineral is for the same use given with Juleps and other Medicines.

When these do not avail, we must be constrained to use Narcoticks or Stupescatives: Among which *Laudanum* is the best, given to four or five grains at bed-time; or one ounce, or half an ounce of Syrup of Poppies: These do wonders being used in the beginning of the disease. New Treacle given at night from a scruple to half a dram, hath the same force.

Benedictus Faventinus useth the following Pills in a salt Catarrh with good success.

Take of the Juycce of Liquoris two drams: washt Aloes one dram: Pilulæ de Cynoglossa half a dram: With Syrup of Violets make a Mass, of which take a scruple at bed time.

The Troches of Solenander before-mentioned are excellent.

Diacodium album prescribed in the Cure of the Phrensie is good for this.

In the mean while the Matter flowing must be revelled by Clysters, Cupping-Glasses, Frictions and binding of the external parts, and chiefly by Vesicatories in the Neck, and finally with Issues in the hinder-part of the Head and Arms, if the Catarrh be old.

But for the strengthening of the Head, and stopping of the Fluxion, and consuming the remainder; Powders, Bags and Emplasters are good.

Take of white Amber, Sandarach, Mastich, Benjamin, Nutmeg, of each one ounce: Frankincense, Grains of Kermes and red Roses, of each half an ounce: all the Sanders, Mirtles and Pomegranate-flowers, of each two drams; make a Powder. Use it to the Head at night, and comb it off in the Morning.

Take of the Gum of Juniper two scruples: red Roses two Pugils: Mirtles one dram: Mace and Nutmeg of each one scruple: Frankincense and Peony-seeds, and Poppy-heads, of each two scruples: Cyprus Nuts half a scruple, Powder them, and take them up with red Wooll, and with a red cloth make a lining for a Cap to wear constantly.

Take of Mastich and Frankincense, of each half a dram: Sandarach, red Coral, red Roses, Mirtles, Pomegranate-flowers and Peels, of each one dram: Labdanum two drams: Wax and Oyl of Roses, as much as is sufficient. Make an Emplaster for the Coronal Suture.

But because this Catarrh for the most part comes from a hot distemper of the Liver, therefore you must use Medicines to that.

Finally, This is most remarkable, which is also mentioned in the Cure of a cold Catarrh; That Excrements use to cause Catarrhs by flowing to the head when their usual natural passages are stopped: And then a Catarrh is best cured by opening those passages with a gentle and constant Purg- ing in Broths or the like.

CHAP. XVI. Of the Headach.

THe word *Cephalalgia* is used generally for every pain of the head: but more especially it signifieth a new Head-ach; but the word *Cephalæa* signifieth an old Head-ach; and *Hemicraneæ* signifieth that pain which onely is in one side of the Head.

There are other differences of Head-aches; they are divided into Internal and External Parts by consent and propriety; and of these, one is called a pricking pain, another a stretching or extending pain; another a heavy, another a beating or shooting pain.

The Internal pain of the head is in the *Meninges* or Membranes, that is very deep and reacheth to the Roots of the eyes: But an external pain is in the *Pericranium* or Membrane without the Skull, and will not indure the Roots of the Hairs to be combed back, and is made greater by the least compression of the Head. This is the Doctrine of *Galen*, which he teacheth 3. *de loc. aff. cap. 1.* and *lib. 2. de comp. med. secundum loc. cap. 3.* saying very solidly, That the Internal Head-ach is distinguished from the external by this peculiar sign, That in the Internal the pain comes to the Roots of the

the eyes, not in an external; and he gives this reason, Because the Coats of the eyes come from the *meninges* of the Brain; whence it comes that the grief is conveyed into the eyes. But *Fernelius* contradicts this Doctrine, *lib. 5. Pathologia cap. 1.* and affirmeth, that external pains do reach to the roots of the eyes, because the *pericranium*, or skin of the Skull wherein those pains are, doth reach to the cavity of the eyes. To whom *Rondeletius* answers, *lib. 1. Meth. Med. cap. 5.* That the cavity of the eye doth not suffer with the *pericranium*, although it reach to it, by reason that the pain of the *pericranium* comes for the most part of external cold, for a cold part will easily suffer from the like quality: but that cold cannot reach to the hollow of the eye, because it is preserved by the heat, blood, and spirits of the eyes. But if at any time a Headach cometh of external heat, or the like, the skin of the head is onely affected, not the *pericranium* which lieth deep. But this Doctrine of *Rondeletius* doth not altogether take away all difficulty; for although all things which he alledgeth should be granted, yet if a pain arise from a Tumor gathered upon the *pericranium*, or of some other cause that dissolveth continuity and divideth, there is no reason why the grief should not reach to the hollow of the eye. We can say this in defence of *Galen*, That this sign was given by him for two reasons: First, because the Membrane which reacheth to the hollow of the eye from the *pericranium* is not so sensible, and therefore cannot suffer but absolutely: but the Coats of the eyes which come from the *meninges* are very sensible, and therefore have great pain. Moreover, that Membrane which cometh from the *pericranium* doth not touch the eye so inwardly and deeply towards the Optick Nerves, as the Coats which come from the *meninges*; whence it is that the external pain cannot extend it self to the roots of the eyes, as *Galen* saith.

A pain by propriety is constant and permanent, nor doth it follow the Disease of other parts: but a pain by consent or sympathy depends upon the infirmity of another part, so that as that increaseth or diminisheth, the Headach increaseth or diminisheth. Now this pain by sympathy is either by consent from the whole body, as in Fevers; or from some peculiar part, as the Stomach, Liver, Spleen, or Mother.

But we may know what part is affected when a pain is communicated to the head by its proper signs.

A pricking pain comes from a sharp cholerick humour or vapour which toucheth the Membranes of the Brain. A heavy pain comes from much thick and cold matter, namely Flegm or Melancholy compressing the sensible parts. An extending pain comes from wind or mild humours, which work themselves into the Membranes, and distend them. A beating or pulsative pain comes of thin cholerick blood or spirits abounding, by which the Arteries being stretched and swoln, do beat more vehemently and shake the Membranes, and so striking the adjacent parts, cause in them a sense of Pulsation, as *Galen* teacheth more at large, 2. *de loc. aff. c. 3.*

CAUSES. From what is said, the chief Causes of a Headach are sufficiently declared, which in general are referred to the Solution of Continuity, as to the immediate cause: for whatsoever doth bring a manifest or hidden Solution of Continuity, is like to bring a Headach.

SIGNS. The Signs of the kinds of Headach, and of the causes that produce them, may be learned from what is said, and therefore we come to the Prognosticks.

PROG. An external Headach is always less dangerous and easier cured than the internal.

A Headach in a sharp Fever with thin and white Urine is dangerous, for it signifies the cholerick matter is sent into the Brain, whence there is fear of a Phrensie.

A strong pain of the Head suddenly seising without Evacuation following, or mitigation of the Disease, is deadly; for it signifies the destruction of the Animal Faculty, which no more feeleth that object which caused the grief.

In a great Headach it is evil to have the outward parts cold, for by the vehemency of the pain there is a strong attraction of heat to the part affected, which will cause Inflammation.

They that recover of a Disease in the inferiour parts, and have after a vehement Headach, if a manifest Evacuation went not before, will have an Imposthume in their Brain, for it signifies a translation of the matter which caused the Disease into the Brain.

They who vomit green in an Headach, and are deaf being awake, are suddenly very mad, 1 *Prorrh.* for it signifieth a collection of Choler into the Brain, which maketh the Stomach consent therewith, and suffer.

Headach and noise in the ears without a Fever, or giddiness, or deafness, or numbness of the hands, signifieth an Apoplexy or Epilepsie to be at hand, *Hyp. in Coacis.* For those Symptoms come from abundance of thick flegm in the Brain.

To Women with child, sleepy and heavy, Headaches are evil, 1 *Prorrh.* for they signify the flux of humours to the Head, which when they are many in Women with child, by reason they have not their Courses, do threaten danger.

A Headach which was not from the beginning of the Disease, but rose from the disturbance of the body, shews that there will be a *crisis* by bleeding at the Nose, or by Vomit.

CURE. Since then the pain of the head cometh either of a cold or hot cause, we must direct the Cure for the taking away of both.

For the cure of a cold Head-ach the flegmy matter is first to be evacuated, being prepared as is shewed in the Chapter afore going. Then we must correct the cold distemper of the Brain, and the reliques of the humor are to be dissolved with Bags mention'd in the former Chapter, or in the Chapter of the Cold Distempers of the Brain: with which being warmed, let the Head being shaven be rubbed for an hour and an half every morning, till the cause of the pain be spent and exhausted.

After the Head is well rubbed, sprinkle upon it this following Powder, having put upon it Cotton or Wooll.

Take of Nutmegs, Cloves, Pepper, Pellitory, of each half an ounce; the leaves of Sage, Bayberries, of each two drams; Mustard-seed and Watercress-seed bruised, of each six drams. Make a powder of these, sprinkle it upon the Head as aforesaid, and comb it in the morning before the use of the little Bags, that the powder laid on the day before may be taken off.

Errhines are also profitable, Neefings and Apophlegmatisms, or things to chew, which were described formerly.

A Magistral Syrup also made as followeth is very profitable.

Take of Guajacum wood and roots of China sliced, of each one ounce and an half; infuse them twelve hours in four pints of Spring water; boil them till half be consumed, adding in the end the leaves of Vervain one handful, the flowers of French Lavender and Marjerom, of each a small handful; dissolve in it being strained half a pound of white Sugar; boil it up to a Syrup: but before it be perfectly boiled, cast in two ounces of Senna tied in a Clout, the best Agarick two ounces, Rhubarb three ounces: let him take two or three ounces once a week.

These Pills also following are very good, which in times past were of great esteem in Italy in the days of *Eustachius Rudius*, chief Professor in the University of Padua, who was reported to be the Inventor of them, and accounted them a great Secret, and therefore gave them to one Apothecary onely to be made by him, lest others should know the Receipt, which indeed he borrowed out of *Wickerus*, who propoundeth it from *Andernacus*, and it is thus.

Take of Coloquintida six drams; Agarick trochiscated, Diagridium, black Hellebore, and Turbith, of each half an ounce; Aloes one ounce, Diarrhodon Abbatiss half an ounce. Let the purging things be bruised and beaten together, and put in a Glass with the Spirit of Wine so much as is sufficient, and let them be digested for eight days in a warm place, and then adde the powder of Diarrhodon, and infuse them four days longer, then strain them and press them, and let the liquor so pressed forth be distilled in Balneo solong, till the Extract in the bottom of the Alembick grow so thick that it may make Pills, the dose whereof is one Scruple,

But the following Pills are ascribed to *Fernelius*, of which he affirmed he found by experience such excellency, that he never met with a Cephalalgia, Hemicrania, that is, half Head-ach, but he cured it.

Take of the best Aloes half an ounce, the powder of the Electuary of Pearls, the three Sanders, and red Roses, of each three grains. With Syrup of Wormwood and Violets make a mass. Give a dram thereof twice in a week one hour or two before Supper.

And finally, in a stubborn pain that is old all those Medicines are convenient, which were before mentioned in the cure of the cold distemper of the Brain; among which Epispasticks or Blister-drawing Plasters are not the meanest. Which also not prevailing, some are so bold as to apply *Vigo's* Emplaster with Mercury, which they say hath cured old Headaches sometimes, by causing them to spit much.

Baths of Brimstone and Bitumen are very efficacious in this case, used both to the Head and the whole Body.

Also in an old Headach sweating Decoctions are very good, and famous Authors declare, that many have been cured thereby.

Which not prevailing, *Mercatus* is bold to fly to the use of Stibium, and commends it highly in his first Book of the cure of Internal Diseases, and the eighth Chapter. But in an old Grief it is better to strengthen the Head often, than to use too many Evacuations: Therefore Powders and Caps, and other Topick and External Medicines are very necessary, before mentioned in the cure of the cold distempers of the Brain.

But Powders are more commendable, because the vertue of a Cap is not so much communicated to the Brain, and the pain may be increased by the filth which is contracted by the long wearing of them.

Moreover an Oyntment may be applied of the Oyl of Almonds, in which wilde Betony, Bay-leaves, Mastich, Lavender, Mints, Marjerom, Thyme, Penroyal, Nutmeg, Cloves, and Cinamon, or some of these have been boiled, adding in the time of the boiling a little red wine.

Or this following Chymical Oyl.

Take

Take of Turpentine one pound; Mastick, Nutmeg, Cinnamon, of each one dram: Cloves, Zedoary, Galangal, Laudanum, of each one ounce and an half; the juyce of Ebnus or Dwarf-Elder, and of the wild Cucumber, of each one dram; the Oyl of Camomel and Lillies, of each half a pint; red Wine one pint and an half; wild Marjoram green one handful; powder those that are to be powdred, and put them into a Glass Retort, and extract an Oyl; with which anoint the Head after it is shaved.

Oyl of Amber is very good, and it will be sufficient onely to anoint the head therewith.

While you use the aforementioned Remedies, you may also use from the beginning of the Cure Specificall Medicines, such as this Epitheme.

Take of the powder of Zedoary one dram; the Water of Betony, Vervain and Elder, of each one ounce. Mix them and apply them hot to the part grieved with Scarlet-cloth.

Among the proper Medicines for the Head-ach, from what cause soever it ariseth, Vervain is the chief; whose Water distilled you may both apply externally, and give of it internally to the quantity of four ounces, with three drops of the Spirit of Salt. Green Vervain alone only hung about the Neck, hath cured two Patients when many other Medicines failed, as *Forestus* reports.

Zacutus Lusitanus in Lib. 1. *Praxis Med. mirab. observat.* 7, 8, 9, 10. propounds four Remedies confirmed by Experience; namely, an Issue in the back of the Hand, Horseleeches to the Temples, opening of the Vein in the Forehead and the corner of Eye, which you may read in the place cited.

These things are to be noted concerning those Observations.

First, That the Issue between the Thumb and fore Finger is approved by other Experiments, and hath cured great Head-aches.

Secondly, In the Cure by Horseleeches, *Zacutus* is not content to apply two or three as ordinarily is done, but ten or twelve round about the Temples; whence comes a great attraction of blood which may draw forth the whole matter of the Disease.

Thirdly, In Curing by opening the Veins in the Forehead, we must observe, That the Vein was twice opened, whence it appears, that the first was not sufficient, when ordinarily our Practitioners do seldom open it the second time, if it hath been to little benefit.

The hot Cause of a Primary and Essential Head-ach, is Blood or Choler: And the like Remedies are proper for both, though they must be made stronger or weaker, according to the strength of the Disease.

First then, (after a Clyster is administred) begin with Blood-letting, drawing forth more when the greif proceeds of blood, than when it proceeds of Choler.

Then give a Medicine to purge Choler, not onely when Choler is the principal Cause, but when blood aboundeth, whose thinner part is easily turned into Choler.

If the matter offending is not sufficiently taken away by one Purge, you must purge again at a due distance.

After apply Repelling Medicines to the head, and Vinegar of Roses, such as were propounded in the Cure of the Phrensie, making choice of the mildest.

And after it will be very profitable to apply Creatures newly killed, or parts of them, to discuss the Relicks of the Disease, and to assuage the pain.

In an Head-ache which goeth with a continual Feaver, a Ships Lungs applied hot do much assuage the pain.

Also a Cataplasm of bruised Gourds and Housleek to the Feet.

The opening of the *Saphena* after sufficient bleeding in the Arm, cures oftentimes a Head-ach with a Feaver very suddenly.

You must use Cupping-Glasses with and without Scarrification, and Frictions of the extream Parts.

And in whole time of the Disease, if the Belly be not loose, must every day give an Emollient and cooling Clyster, and which doth gently purge.

After general Evacuations and Revulsions, you may rightly and with profit derive the matter by opening the Head-vein, or with Horseleeches applied to the Forehead, or with Vesicatories to the Neck.

In the mean while, let the whole mass of humors be qualified with Juleps, Emulsions and Broaths as was mentioned in the Cure of the Phrensie.

Lastly, If the pain be very violent, you must apply Narcoticks both externally and internally, at they are set down in the said Cure of the Phrensie.

Here also may avail the opening of the Forehead-veins, and Leeches to the Temples, commended from *Zacutus Lusitanus*.

Paracelsus, lib. 16. cap. 4. reports, That a desperate half Headach was cured by opening the Arteries

in the Temples, and says, there is no danger in doing it. The Artery is opened as a Vein, and six ounces of blood forceably leaping forth are to be taken. After apply a convenient Ligature, and open it not in four days.

Batallus also says, That it doth miraculously cure old Head-aches; and we also have cured desperate ones the same way, and never found any danger in the opening of the Arteries.

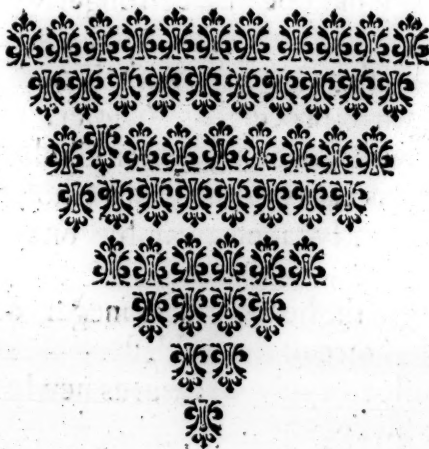
You must apply a Plaister to the Orifice of Frankincense, Mastick, Bole-armenick, and Hares Hair, with the white of an Eg, and then make your Ligature as you use to do in wounds of the head.

In all pains of the head, of what cause soever, if other means fall, and the greatness of the pain make thee run to extremities; a Vesicatory applied over all the head after it is shaven, will cure it.

A Cautery upon the Coronal Suture sometimes hath perfectly cured a violent head-ach.

But it is more powerful if it be applied to the Temples, of which see *Poterius, observat. Centur. 3. Chap. 8.* and our Observations thereon.

The End of the First Book.



THE

THE
SECOND BOOK
OF THE
PRACTICE
OF
PHYSICK.

Of the Diseases of the Eyes.

The Preface

THe Diseases of the Eyes are so divers, that it is very hard to lay them down clearly and plainly, and to distinguish one from the other; which that we may endeavour as much as may be, and clear up our Treatise for Practice, we will thus divide them; the Diseases by which the Sight is immediately hurt, may first be expounded, and afterwards the rest which happen to the Parts of which the Eyes are compounded, or which are near unto them, without any, or very little hurt to the Sight. The Sight is hurt when it is diminished, abolished or depraved. Sight abolished is called *πρόληψις* in Greek, in Latine *Cæcitas*. But Sight diminished hath divers Names according to the degree and manner of the diminution; of which the chief are *Amblyopia*, *Myopia*, *Nyctalopia*, and *Acies Vespertina*.

Cæcitas Blindness comes either from an absolute Obstruction of the Optick Nerves (and then it is called *Amaurosis*) or from a total Suffusion, or from some great fault in the Tunicles and Humors.

Amblyopia, in Latine *Obscuritas*, *Hebetudo*, or *Caligo*, dark or dim sight, when the Object not clearly seen at what distance soever placed, comes from the same Causes, but more light and imperfect, as an imperfect Obstruction of the Optick Nerves, a light Suffusion, want of Spirit or grossness of the same, and the like.

Myopia, in Latine *Luscositas*, or *Purblindness*, in which the Objects are not perceived, except they be very nigh and close to the Eyes, but not at all afar off, or very little and imperfectly: so that they perceive not their own Friends passing by. And according to the Opinion of Galen, and all Modern Physicians, from the thinness and smallness of the visive Spirits which stand not in need of a Medium much enlightned to make a perfect sight, but is thereby dissipated. On the contrary, they which have grosse and thick Spirits see things best at a distance, because that gross Spirits need more enlightning which is brought by the larger illumination of the Medium: But this Doctrine is demonstrated to be false, and to spring from ignorance in Opticks, whose Principles declare, that these diversities of sight proceed from the diversity of the situation of the Crystalline Humor. For when the Species of the Objects are received into the Crystalline Humor by a Pyramis, or sharp point thereof called *Conus*: if the Crystalline Humor be too much inward towards the Pupil

of the Eye, the remote Objects are better seen, because it is necessary that the Object should be at a further distance, that the Conus or Point of the Pyramis may come to the Crystalline Humor, and there be terminated. But if the Objects come nearer the Eye, the Conus goeth by the Crystalline, and they are seen more obscurely. Again, if the Crystalline lie too low, and too far from the Tunicle called Uvea, the Objects must be nearer to the Eyes, that the Conus or Point of the Pyramid may come to it: whence it appears, that Myopia comes no other ways than from the Crystalline lying too low; and so this Disease becometh connatural, and not to be cured. But the effect of Myopia is contrary, in which the Object is better seen at a distance; and this happens for the most part in old Men, in whom some of the portion of the watry Humor is spent, so that the Crystalline goes to the Pupil of the Eye. Further By long holding down the head either with Reading, Writing, or otherwise, the Crystalline humor comes by degrees forward: This is demonstrated by the use of Spectacles, because that they who have Myopia, or are Purblind, see best with hollow or concave Spectacles, by which the Rays or Beams of the visible Species are dispersed, whereby it comes to pass, that the Conus of the Pyramis is more long, and so that thing which by reason of the great distance could not be seen, is now plainly perceived; because the Conus of the Pyramis is extended as far as the Crystalline, which before ended in the Pupilla, or in the watry Humor, or in the white Humor. On the contrary, Old Men are helped with Convex Spectacles, by which the Beams are united, and the Conus of the Pyramis is made shorter, and so things are better perceived whose Conus before passed by the Crystalline, which was too near to the Pupilla.

Nyctalopia, or Nocturna Cæcitas, is when men see well enough at day-time, at Sun-set worse, and at Night not at all: and it comes from the over-thickness of the Spirits, or Humors, or Tunicles, or the straightness of the Pupilla. For in these cases a greater light is necessary for true sight, which being wanting, at Sun-setting, or at night by a Candle, they see little or not at all.

Vespertina Acies, is when Men see worse by Day, and better by Night: and this sometimes is called Nyctalopia, as we see in Hippocrates, 2. Prorrh. but the Modern Greeks have from long Custome used the word Nyctalopia onely for Night-blindness: it comes from the thinness of the Spirits which are spread abroad by too much light: or from the enlarging of the Pupilla, by which too much light goes into the Eye and hurts the sight: for a little light at Night doth more illustrate and shine to them, than to those who have the Pupilla enlarged.

After what manner the Sight is hurt by diminishing, abolishing, and depraving, we shall lay down more plainly when we explain the Diseases of all parts of the Eyes by themselves, For seeing all the parts of the Eye do conduce to the action of it, namely, Sight, when any part is distempered, the Sight must also suffer.

The Eye is compounded of Tunicles, Humors, and the Optick Nerve, for the action of which parts, the Animal Spirit doth concur as a principal and universal Agent.

And therefore that we may run through the Diseases of those Parts, we will begin from the Distemper of the Constitution of the Optick Nerve: next we will proceed to the Disease of the Humors and Tunicles. But the faults of the Spirits either depend upon the Distemper of the Brain, and then other Senses are also hurt: or from the Distemper of the Eye it self, which being cured, the Spirits receive their ancient and due Constitution, so that we need not make a particular Tractate of them. But in Curing Diseases of the Eyes, when sight is hurt, we must alwayes mingle those things which comfort the visive Spirits with other Medicines.

CHAP. I.

Of Gutta Serena, or Amaurosis.

When the Sight is gone, and no fault appears in the Eyes, it is called *Gutta Serena*, or *Amaurosis*: And it comes to pass, when the Animal Spirits cannot pass from the Brain to the Eyes; for when the Animal Spirits come into the Eyes from the Brain by the Optick Nerves, we must find out the stoppage of their influx in the Optick Nerves. The Optick Nerves are many wayes affected, but chiefly by obstruction or stoppage, striction or binding, and by solution of continuity.

Obstruction is the most common and most ordinary cause of *Gutta Serena*, which comes of a watry Humor flowing down from the Brain upon the Nerves, even as other Nerves are obstructed in a Palsey by the same Humor, so that the Diseases may be said to be alike by reason of that Obstruction.

But

But it is most certain, that this Disease is also begot by adstriction and compression of the Optick Nerves, which compression may come both of a moist humour gathered about the Optick Nerves, and pressing upon them; as also of blood, filth, or matter: whence sometimes certain Tumors rising in those parts, produce the like Disease. For experience teacheth, that sometimes blindness in one eye, sometimes in both, comes upon inflammation of the Brain, and from Phrensie in malignant Fevers. And *Platerus* reports, *lib. 1. observat.* That he saw a blindness which came from a round Tumor growing in the Brain, and compressing the Optick Nerves, which appeared by opening of the Head after the Patient was deceased.

Finally, Wounds in the Head, in which the Optick Nerves are divided, without controversie do cause that the Animal Spirits can no more come to the eyes.

SIGNS. This Disease is known, in that the eyes seem to be in their natural condition, and there is no fault apparent in them, onely the *Pupilla* seems blacker and larger. But in distinguishing the differences of Causes there is great difficulty: for although the Disease coming of blood or matter is known by Inflammation, Impostume, or Wound going before, yet no certain sign can be given, by which we can distinguish a compression made with Flegm from an Obstruction; but we may in some part conjecture, for in the Obstruction onely of the Optick Nerve the Eye is onely affected, but if a compression be made of the same Nerve by flegm gathered about the roots of the eyes and processes, that matter possesseth other parts of the Brain, and then all or some of the other senses are hurt; but if it seize onely upon the Optick Nerves, there is more plenty of humour sent forth at the Nostrils, and the Patient perceives a heaviness in the forefront of the head, especially about the Eyebrows.

PROGNOSTICK. As to the Prognostick part, if this Disease be absolute, that is, if there be a total loss of sight, especially if it come from Obstruction of the Optick Nerves, it is for the most part incurable: as we see in Palsies also, that they are scarce or never cured which come from the obstruction of the Nerves, especially if the Patient be old. But if the obstruction be imperfect, which onely causeth a diminution of sight, but not blindness, there is more hope of recovery, although it cannot be brought about without much pain and long use of Medicines.

But if the Disease come of humours gathered in the forefront of the Head, which compress the Nerves, it may be more easily cured. So saith *Fabricius Hildanus, observ. 19. cent. 5.* That a certain man after a strong Vomit lost his sight, and that he cured him with giving him the same Medicine again; for as the humours being too much stirred by a violent Vomit, and cast upon the Optick Nerves compressing them, did hinder the passage of the Spirits to the Eyes; so the same humours being carried away by the same Medicine, the Disease became cured. Almost the like story is mentioned by *Sennertus*, of a certain Student, who taking too strong a Purge became suddenly blind. He also affirmeth, That certain Women, after they had conceived with child, became blind through the streightness of the Optick Nerves, and that the Disease went away after four or five moneths, or in the time of their Delivery.

We also have seen some which fell suddenly into extreme diminution of sight, who within fifteen days were cured by universal Evacuations and some Revulsions, and by the easiness of the Cure we suppose that the humour was not fastned within the substance of the Nerve, but onely gathered together in the Brain about the Original of those Nerves.

CURE. For the Cure of this Disease, the matter fastned upon the Nerves, or cleaving thereto, and that maketh the obstruction or adstriction, is to be evacuated, which cannot be done except first the whole body be cleansed, as *Galen* saith 4 *Meth.* The Eye is not to be cured before the whole Head, nor the Head before the whole Body.

And that Remedies may be set down in a convenient method, we will first set down a Course of Diet, which must be attenuating and moderately drying.

And first, the Air must incline to hot and dry, and a thick, cold, cloudy, and moist Air must be altogether avoided. Let him eat Meats of good and laudable juice, avoiding them which beget gross juice, as Pork and all Swines-flesh, Geese, Fish, Pulse, Cheese, and the like, as those which are windy and fill the Head, as Milk-meats and hot Spices, *viz.* Pepper and Ginger, &c. Let his Bread be made with Fennel water, or with the seeds thereof, being careful that the Wheat of which it is made be not mixt with Darnel, which all the Ancients believed to be very naught for the sight: Hence in the Comedy, he that derideth another for defect in his sight, I think (saith he) thou hast fed upon Darnel. In the Sawce to his Meat, and in his Broths, let him use things extenuating, as Hyssop, Fennel, Marjerom, Betony, Sage, Eye-bright, and especially Nutmeg, which strengtheneth the Brain and clears the Sight. He must eat Turneps often, which are thought to quicken the Sight; so do Sparrows, Pidgeons, often eaten. Cold Herbs must be forborn, and especially Lettuce, which hurts the Eyes.

Let him take but a small quantity of Meat at a time, and let the sick man never fill himself immoderately. Let his Supper be less than his Dinner, and to abstain from a Supper twice or thrice in a week is very good. At his Meat instead of Salt let him use this Powder following.

Take

Take of common Salt two ounces, Eye-bright dried two drams, Nutmeg one dram, Cinnamon two Scruples. Mix them into a Powder.

After every Meal let him take one spoonful of the Powder following.

Take of Coriander-seed prepared half an ounce; Annis-seeds and Fennel-seeds of each two drams; Cinnamon and Nutmeg of each one dram; Eye-bright dried three drams; Sugar of Roses a double weight to all the rest. Make a Powder.

Wine in this Disease is not good, because it is full of vapours and fills the Head, and is apt to cause defluxions; therefore a Decoction of Sarsaperilla sweetned with Liquoris, and aromatized with Coriander, will be very profitable. But because the Disease is of a long continuance, and all cannot abstain so long from Wine, if we must permit Wine, let that be chosen which is weakest and less vaporing: and it would be more beneficial if Eye-bright dried were first steeped therein. And that he may make Eye-bright Wine for a long time, in the Vintage let him put Eyebright into a vessel filled with new Wine, and let the Patient use that for his ordinary Drink.

Let his Sleep be less and shorter then usual, and let him lie upon his back with his face upwards as much as may be: let him avoid sleeping at noon, because it is very hurtful. Let his Exercise be moderate, and instead of Exercise let him use Frictions or Rubbing of the inferiour parts; let his Belly be always kept loose, and let him avoid disturbance of Mind.

The course of Diet being thus ordered, you must begin your Cure from universal Evacuation, and first you must purge with the following Medicine.

Take of clean Senna half an ounce; Fennel-seeds one dram; the leaves of Betony, Eye-bright, and Vervain, of each half a handful; Liquoris three drams. Boil them to three ounces; dissolve in the straining three drams of Diaphœnicon, Syrup of Roses one ounce. Make a Potion, and give it in the morning with orderly government.

After this first Purge let the Physician consider seriously with himself whether he may bleed or not. For it is disallowed in this case by almost all Practitioners, because it is a Chronical Disease of long continuance, coming of a cold distemper and of a flegmy humour. Hence they fear lest by blood-letting the Brain should be made more cold, and so beget more flegm; and lest the conjunct cause of the Disease should be more incrassated or thickned, and so become more difficult to be discussed and dissipated. But although their Opinion may take place as to old men, and such as are of a flegmatick Constitution, yet it is not to be admitted to them that are young, or of a hot Constitution, especially if there be manifest signs that blood doth predominate, for then there is no doubt but seasonable blood-letting may much profit. Nay, where the aforesaid signs of blood do appear, it is profitable in the judgment of Paulus and Aetius, after the Vein in the Arm is opened, to open the particular Veins in the Head, and those which are nearest the Eyes, namely the Frontal and Temple Veins, and those which are in the corners of the Eyes near the root of the Nose. But you may better apply Horsesleeches to the Forehead, as also behind the Ears. Some Practitioners do relate, that some by a wound in the forehead have been cured of blindness; in which it is most probable, that the cause of their blindness was the compression of the Optick Nerves by the Veins and Arteries adjoining, and swelling with too much blood, which the wounds aforesaid emptied forth. Whence Spiegelius (as Plempius reports in his book of the Eyes) was wont in Gutta Serena with good success to open the middle Vein in the Forehead, and let it bleed while it stopt of it self.

But if the suppression of the Terms went before this Disease, you must draw blood from the lower Veins, or apply Leeches to the Hemorrhoids. If the Patient had formerly a flux thereof, which then is stopped, or if he have a very hot Liver, or be of a melancholy temper.

Afterwards the whole body is to be more exactly purged by this following Apozeme.

Take of Fennel-roots, and Sarsaperilla, and Flowerdeluce-roots, and Elecampane-roots, of each one ounce; the leaves of Betony, Marjerom, Balm, Eye-bright, Fennel, Vervain, and Celandine the great, of each one handful; Liquoris sliced, and Raisins of the Sun stoned, of each one ounce; Annis-seed and Fennel-seed, of each three drams; cleansed Senna two ounces; Gummi Turbith and Agarick newly made into Troches, of each two drams; Ginger and Cloves, of each one scruple; Flowers of Stœchas, Rosemary, and Lavender, of each one small handful. Boil them in five quarters, that is, a pint and a quarter of water; dissolve in the straining four ounces of white Sugar; make an Apozeme, clarify it, and perfume it with two drams of the best Cinnamon for four mornings draughts. After the Apozeme is done let him take these Pills.

Take of the mass of Pills Lucis major, and Cochia the less, of each half a dram; malax them with Betony water, make six gilded Pills thereof, which let him take early in the morning.

After this general Evacuation the antecedent cause is to be revelled, and the conjunct cause is to be derived and discussed. For this Frictions of the extreme parts, especially beneath, are to be used every morning.

Cupping-glasses must be applied to the Shoulders and Back without Scarrification; especially to the

the hinder part of the head with Scarrification; for they do so powerfully draw the humors from the fore-parts and the principle of the Nerves, that some presently after the application thereof have recovered their sight. At the same time apply a Veficatory to the hinder part of the neck, and let the Blisters that are raised to be kept long open, with Beet or Colewort Leaves often applied.

When the Veficatory is dried up, apply a Caustick to the hinder part of the head or neck between the second or third *Vertebra*, or (as it is now most usual) apply two Causticks to the Neck behind upon the fourth and fifth *Vertebra*; so that the back-bone may be untouched between them, and both may be cured with one Plaster.

Instead of Cauteries a Seton applied to the same part is most efficacious, but the tenderness of our Country men hath almost abolished the use thereof.

If the aforesaid Cauteries avail not, you may lay a potential Caution to the Coronal Suture; which sometimes hath done the work when other Remedies have failed.

When these things are doing, presently after universal Evacuation by siege, you must order a sweating Diet of the Decoction of Guaiacum, Saxaphras, and the Roots of Sarsa, according to the method prescribed by us in the *Cure Of the cold distemper of the Brain*. Observing this, that towards the end of the Sudorifick Decoction, you add those things which peculiarly respect the Eyes; as Vervain, Fennel, Eyebright and Celandine the greater.

And for the better drying of the Brain; let the Bags prescribed in the Chapter above mentioned be applied to the Temples if you fear not an Inflammation.

Also after the Sudorifick Diet it is very convenient to use Sulphurous and Bituminous Baths and washings of the head; because they are very proper for the correcting of a cold and moist distemper, for the consuming of flegm, and strengthening the brain.

Besides the Universal Evacuation of the body and head, particular may be ordered; as Medicines that cause spitting, called *Apophlegmatism*, by which the Rheum is brought out of the brain by the Palate; which may be made either in a form of a Gargarism or Masticatory; according to the forms prescribed in the *Cure Of the cold distemper of the Brain*.

Errhines and Sternutatories or Neefings are condemned by almost all Practitioners in this disease, because they draw humors to the eyes: but yet if some of the milder and gentler sort be used (after an exact purging of the whole body and head) for some few days; they may be profitable in regard they may by degrees draw forth and derive the humor which causeth the disease, and is fastned in the Optick Nerves, nor can they fetch any thing from the profound part of the brain to the fore parts: Otherwise in every derivation which is an evacuation by the part affected, or that which is near unto it; we should always fear lest there should be an attraction to the parts affected, which is easily hindered by universal Evacuations which ought to precede; and those Errhines may be made of the juyce of Beets and Marjerom with white wine in which Manna hath been dissolved.

But a stronger and yet safe Errhine may be made of the powder of Tobacco corrected with Cephalicks and Oxydoricks, or Medicines that help the sight; for by that the Rheum is drawn forth rather by the Palate than the Nostrils; and the brain is so fortified that it will not so easily receive the defluxion of humors from other parts. The Composition whereof is as followeth:

Take of dried Tobacco one ounce, the leaves of Sage, Marjerom, Betony, Eyebright, the flowers of Clove-gilli flowers, and tired Roses of each one dram: make a Powder to be snuffed into the Nostrils for some few days.

Neither is it sufficient once to cleanse the body of Excrementitious humors with universal Purging, but you must keep it in that condition all the time of the Cure; therefore with Purges intermixed, the excrements which daily increase must be brought forth; which may be done with usual Pills made after this manner:

Take of the best Aloes half an ounce, clean Senna, Turbith, Hermodaits, Agarick newly trochiscated, of each two drams: Diagridium one dram; Mace, Cloves and Eastern Saffron, of each seven grains: sprinkle them with the juyces of Marjerom and the greater Celandine; then dry them again in the shade. And with the Oxymel of Squils make a Mass of Pills, of which let him take half a dram or two scruples twice or thrice in a Moneth.

While these things are used, you must continually labour to strengthen the brain and the eye; and the Patient must take diversity of Medicines, lest by taking the same a long time, it prove nauseous unto him; and lest Nature be too much enured to a Medicine, and so it lose its Operation. Old Physicians say, Treacle is reputed to be of excellent vertue to this purpose, which may be taken by a dram every night with Fennel, Eyebright or Celandine water twice or thrice in a week. Nutmeg eaten every morning fasting, is much commended if it be long chewed that the vapor may be carried to the eyes; if you fear that the swallowing down thereof should offend by reason of the heat, it may be spit forth after it is chewed. Candied Myrobalans taken in the morning are thought to clear the sight exceedingly.

The usual Opiate is thus made:

Take of Conserve of Betony and Rosemary flowers, of each two ounces, Candied Myrobalans two; ~~old Treacle two drams, the Leaves of Eyebright powdered three drams, Fennel seed two drams: Nutmeg,~~ Cinnamon and Cloves, of each one scruple; with the Syrup of the Juice of Fennel, Rue and Celandine make up with Honey, make an Opiate.

Let him take thereof the bigness of a Chestnut, drinking after it a little Wine mixed with Fennel water.

Now must you omit external Medicines which strengthen, warm and dry the Head; of which sort is the Cephalick Powder for the hair, a Cap and Fumigation, mentioned by us in the Cure Of the cold distemper of the Brain.

Finally, You may apply Topical Medicines to the Eyes to strengthen them: these are usual in Authors, but they are of little force which cannot reach to the Optick Nerves; but if any desire to try some of them, they may find enough of them in the Cure of a Suffusion.

In a desperate case when all other Medicines have been used in vain, a Vesicatory applied over the whole head (being shaven) in form of a Cap hath many times been very successful: if it be twice or thrice used after the drying up of the former Blisters, it is more advantagious.

CHAP. II.

Of the Disease of the Vitrous, or Glassy Humor.

THE Vitrous Humor is next under the Crytalline, and therefore it is made by Nature transparent, that the Species carried to the Optick Nerve may be pure and clean. If therefore the clearness of that humor be hindred by the mixture of another, and so made dusky: according to the degree of that duskiness or foulness, the sight is either diminished or abolished.

Moreover, this humor may be out of order in respect of its scituation; namely, when any part of it by a blow or contusion shall be brought before the Crytalline, for then the sight will be darkned, in regard the vitrous humor is more thick than the watery, and therefore the species of the objects cannot be carried pure and clear unto the Crytalline.

The first affect, namely, the Mixtion of a humor with it, cannot be perceived by any signs, but only it is judged probable by reason, for the vitrous humor cannot be seen, or its condition known; and therefore Practitioners are constrained to confound it, and to make it one with *Gutta Serena*, because no fault appears in the eye, and this they do without offence to the Patient, in regard any humors that are mixed with the vitrous, are to be discussed with the same Remedies that a *Gutta Serena* is cured.

But you may know that this vitrous humor is disordered in respect of its scituation, when it appeareth white under the *Pupilla*, yet it is not easily distinguished from a Suffusion, except the antecedent and first cause be diligently observed. For a Suffusion is caused by a simple defluxion of an humor; but this transposition or displacing of the vitrous humor useth to come of a Wound or Contusion.

This last disease is incurable, for the vitrous Humor being displaced can by no art be reduced to its former condition. But this by nature hath sometimes been done, and therefore the whole business is to be committed unto her.

CHAP. III.

Of the Diseases of the Crytalline Humor.

THE Crytalline Humor is the chief iustrument of sight, and therefore ought to be kept more pure and perspicuous than the rest, that that sence may more freely be exercised. And if it be soiled in the least measure, the sence of Seeing is much hindred.

The chief disease whereby the purity thereof is infected, is called *Glaucoma*, (or the changing of the Crytalline humor into a fiery redness) and this happens when the Crytalline humor is made thick by dryness, as in old people, from some drying and condensing cause it is often seen.

This Disease is known, by a plain appearance of a thick white about the *Pupilla*, and when all objects are apprehended by the Patient as through a cloud or smoak. But it is hard to distinguish this disease from a Suffusion which representeth such a weakness about the *Pupilla*: Hence it is that many Authors do not distinguish between a *Glaucoma* and a *Suffusion*, But they which diligently observe may distinguish them thus: In a Suffusion there is a white in the very *Pupilla*, and very near the Membrane called *Cornea*; but in a *Glaucoma* it lieth deeper.

This

This Disease is incurable, especially in old folk in whom the driness of the part cannot be amended; but if it be not manifest that the fault is in the Crystalline, and there is a suspicion of a Suffusion, you may use the Remedies prescribed for it.

Moreover, the Crystalline may be out of place, namely, when the broader part of it which is flat like a Fetch or Lentil is not directly against the hole of the *Pupilla*, but either is too high or too low, and then objects appear double when one eye only suffereth; because the parallel or streight line is lost, which ought to be one and the same in both eyes, that whatsoever thing is seen by both eyes may appear but one and the same. And if they be not in that order, things are seen double; which you may prove by depressing or lifting up one of your eyes with your finger: for then the parallel is lost, and things appear double. But this depravation of Sight by which objects appear double, comes not only of the cause now mentioned, but also from vapors, or water which hurt the Crystalline, by which the visive spirits are divided, whence it comes to pass that the Species of the same thing are received into two places, which Drunkards usually perceive when they see double.

Secondly, The situation of the Crystalline is altered, when it declineth backward, or cometh forward, if it comes forward to the *Pupilla*, then things near at hand are not so rightly perceived as those which are more remote, as in old men often. But if it decline backward towards the Optick Nerve, things near are truly seen, but not afar off, and then is this Disease called *Myopia*, which was mentioned in the Preface; where we shewed, that these Diseases are only cured by Spectacles.

Thirdly, The Crystalline is out of its place when it tendeth either to the right or left side, which is called *Strabismus*, or Squinting; when the *Pupilla* is not directly but obliquely upon the object, and appeareth not in the middle of the Eye, but in one side: so that there appeareth more white in one part of the Eye, than in the other.

This Disease comes not only from the displacing of the Crystalline, but also from the evil disposition of the Muscles which move the Eyes; which is either natural, or else proceeds from a Palsey or Convulsion of the said Muscles.

Of what cause soever it cometh, if it be connatural, it is incurable; but if it come from Palsey or Convulsion of the aforesaid Muscles, you may find out a way of Cure, in my Chapter of Head-Diseases.

Finally, Other depravations of Sight may come from the inversion of the Crystalline, be it greater or less; as when strait things appear crooked, or when the objects seem to be folded; which happened to a certain Physician (as *Sennertus* reports) who going up a Ladder to take a Book from a shelf, and turning his eyes violently upwards, saw all things afterwards turned upwards, as though men walked upon their heads, which came by the attraction and displacing of the Crystalline. For a quarter of a year after when again he turned up his Eyes violently, his Natural Sight returned, and all things appeared in right order.

Hence it appears, that by a violent motion of the Eye that the Crystalline may be displaced, and again by the same motion be set right. I suppose that the displacing of the Crystalline was thus, It was so inverted, that the fore-part of it (which is more depressed than the other) was not right against the *Pupilla*; but rather its side, which being more round and convex, might represent the species of the objects inverted, as we may also observe in round Glasses, which discover the object inverted; and this is true from the Principles of the Optick Art: for in a Medium that is convex and thick, the species are so broken, and as it were cross cut, that they which come from the upper part of the object, do represent the lower part; and so contrarily, but if the inversion of the Crystalline be less, so as both the depressed part of the Crystalline, and also the Convex part thereof, be right against the *Pupilla*, the objects may seem crooked. Although that depravation of Sight whereby objects seem crooked may come by other means; namely, when any part of the Crystalline is mixed with the watery humor, then by reason of inequality of the Crystalline in regard of thickness, the refractions are divers, which are the cause of depravation of Sight whereby things appear crooked. This may be demonstrated by a clear Example: A staff put half into the water appears crooked for this cause, namely, the species of that part in the water, when it is carried out of the water into the Air, from a thicker to a thinner Medium, is broken by the perpendicular; but that part which is in the Air is not broken, because it doth not pass through divers Mediums as that which is in the water. Hence it comes that the stick seems crooked. After the same manner the species of the object which is carried into the thicker part of the Crystalline is more broken, than that which is carried to the thinner, which is in its natural state, and not mixed underneath with the watery humor; and so by reason of the divers refractions the objects appear crooked.

But since Medicines are to no purpose, we shall prescribe none for these Diseases.

CHAP. IV.

Of the Diseases of the Watery Humor, and especially of a Suffusion.

THE Watery Humor is out of its Natural Condition, when it is distempered in quantity or quality. When the distemper is in quantity, it is enlarged or diminished, and makes the *Pupilla* be dilated or contracted, which diseases shall be mentioned in their places. When the distemper is in quality, it becomes thicker, and that comes from another humor mixed with it, and that is called Suffusion, which we here speak of. For although *Galen* 1. *de Symp. caus. cap. 2.* sheweth, that a Suffusion may come from the condensation of the watery humor, without the access of an excrementitious humor. Yet because it happens seldom, and is known rather by imagination than art, and is altogether incurable, omitting that, we shall speak of that Suffusion only which cometh from the afflux of another excrement or humor. This is called in Greek *ὕδαρμα*, in Latin *Suffusio*, by the *Arabians* Water, vulgarly a *Cataract*. Some Authors would distinguish these names, and make them signify divers sorts of this disease: They call it in the beginning (when the sight is only a little darkned) a Suffusion; but when it is grown older, and something gathered into the Pupil, appears like water, then they call it only *Aqua*, Water; but when the matter is grown thick in the Pupilla, and the sight almost gone, then they call it a *Cataract*. A Suffusion comes from a serous watery humor spread in the space between the *Cornea* and the *Crystalline*: and since a Watery Humor is contained in that space, it may well be reckoned among the Diseases of the Watery Humor.

This is the cause of a true Suffusion; there is another Bastard-Suffusion which comes from vapors sent from the stomach and other parts into the Eyes. *Galen* 4. *de loc. aff. cap. 2.* taught, that vapors may be sent from the Head to the Eyes, and make a Bastard-Suffusion; but although Authors speak of two sorts of Suffusions, yet they are for the most part united, and a spurious or false Pleurisie is complicated or joyned with a true one; because vapors sent from the lower parts to the Brain, are easily carried to those parts of the head which are weakened with any disease, and this appears in that all troubled with Suffusions are less troubled, and see better in the morning than at noon or night, because after dinner or supper many vapors are sent up from the stomach to the eyes which disturb the sight. And Experience teacheth, that men so diseased have their sight more dull and dark presently after meat, than a few hours after. Moreover, all that have a Suffusion relate that they see in the Air little Bodies, as Gnats, Flies, Hairs, Cobwebs, and the like; which could not be but by the gross vapors which are sent to the Eye, and there move: for although Authors suppose that these representations depend upon some thick humors contained in the Eye, which make a Suffusion; yet this is not credible, because then it should always move in the Eye, to represent those little Bodies which fly in the Air, which is contrary to Reason. But rather without question, the vapors are in perpetual motion, and so can represent those flying fancies.

A Watery Humor is the chief and most ordinary cause of a Suffusion, yet other Humors at least in a small quantity may be mixed therewith: and if Choler be mixed, then it is citrine or yellowish; if Melancholy, then it is a black Suffusion.

And those Humors use to flow to the Eyes when they are weak, either Naturally, or by Accident.

From a Natural debility comes a thrusting forth of the Eyes, for they who have such Eyes, are very subject to a Suffusion; for such Eyes use to be great, and therefore the vertue spread abroad is less in them: as also by reason of their largeness they do more easily receive humors and vapors. External causes make an accidental or adventitious debility, as a stroak, contusion, baths, a Southern and rainy habitation or season, heat of the Sun, smoak, continual reading, especially by Candle light, and the like: All which may also cause a flux of humors to the Eyes.

Now the Humors flow from the Brain to the Eyes by the Veins, by the Tunicle called *Uvea*, and by the Optick Nerve. The Veins by which they flow are divers: either those which come from the *Pericranium* to the *Conjunctiva*, thence to the *Cornea* and *Uvea*; or those which come from the *Meninges*, from which some branches come to the Membranes of the Eye, from which Membranes, especially from the *Uvea*, the excrementitious humors may easily fall into the Watery Humor being so near.

Finally, Humors may easily be carried by the Optick Nerve from the Brain; by the *Tunica Rotiformis* and *Aranea*, to the *Crystalline*; and then the matter of the Suffusion sticks upon the superficies of the *Crystalline* humor. Although a Suffusion for the most part comes by a defluxion, yet

yet sometimes it may come by congestion or gathering, when that the nourishment of the Eye is not well changed, and the expulsive Faculty is so weak that it cannot expel sufficiently the remaining excrements, so that they are by degrees gathered together about the *Pupilla*, and so make a Suffusion, in which case other humors are ordinarily disturbed, and difficult diseases are produced.

DIFFERENCES. The Differences of a Suffusion are taken from the thickness and quantity of the humor causing it, and from the place in which the humor resideth.

In regard of thickness more or less, the sight is more or less offended, for if the humor be thin and ferous, of which the Suffusion is made, which is cured by pricking, as *Galen* taught 14. *Meth. cap. ult.* The sight is little worse, and it is called a Suffusion only begun, if it be somewhat thicker, the sight is darker; if very thick, blindness followeth.

In respect of the quantity and the place, either the humor possesseth the whole Eye, and the sight is equally hindered which way soever it be directed; or it possesseth one part of the Pupil more than another, and so the objects are not seen wholly at one direct view, nor can many objects be seen at one time: but if the humor be very little, and possess the middle of the Pupilla, the objects appear with holes through them. But if the matter be divided into divers parts, possessing divers parts of the Pupilla, the forms of Gnats shall seem to be before the Eyes. All these differences are exactly distinguished by *Galen*, 1. *de symp. causis*, c. 2.

Moreover, in respect of the place or situation of the matter, other differences may be made, as sometimes the matter is in the very hole or cavity of the *Uvea* about the *Cornea*; sometimes about the *Uvea*, and between that and the watery humor, sometimes it is mixed with the watery humor. And finally, sometimes it is between the Crystalline and watery humor.

Some differences may be taken from the figure or shape of the matter, which *Galen* relates 1. *de sympt. causis*, cap. 2. and 4. *de loc. affect.* cap. 2. for as the figure of the humor adjacent to the Pupilla is various, so divers objects are present thereunto, as Gnats, Hairs, Cobwebs, Circles about the Candles, and other things.

DIAGNOST. The knowledge of this Disease, is first in distinguishing a true from a Bastard Suffusion, and then in the discovery of the differences of the true and right Suffusions.

A true Suffusion doth for the most part affect only one Eye, but if both be affected, they are not at one time, or alike affected, as in a spurious Suffusion.

Secondly, In a true Suffusion, some dark matter appeareth in the Pupilla, which doth not in a spurious or Bastard Suffusion. But this is not always a true sign, for if the Suffusion cometh of a thin and ferous humor, because it is no thicker than the watery humor, there appeareth no change in the Eye, by which Physicians are sometimes deceived, not knowing that kind of Suffusion, they take it for *Gutta Serena*, perceiving no change in the Pupilla: but this kind is easily distinguished from *Gutta Serena*. First, in *Gutta Serena* the Sight is quite gone, or much diminished, no hurt appearing in the Eye. On the contrary, in a Suffusion which we cannot see, there is only a small decay of Sight, because the ferous humor from whence it proceeds is thin and transparent, so that it may be pierced by the species of the objects like glass. Secondly, they differ in this, for the most part in a Suffusion, the Sight is not equally hindered in all parts of the Pupilla; but the objects sometimes are seen better when they are direct before the Eye, sometimes when they are opposite to the corner of the Eye, because the humor is thicker or thinner in one part of the Pupilla than the other.

Thirdly, In a true Suffusion the symptoms are continual, and have no intermission; in a Bastard Suffusion they are sometimes increased and remitted, as the vapors are more or less which are sent unto the Brain. So they are fewer when the stomach is empty, than when it is full, especially presently after meat, for then a greater company of Vapors do ascend, which sent to the Eyes represent to Sight, Flies, Gnats, Cobwebs, and such like small bodies, not always, but at sometimes only. Which little Bodies represented in the Air, do depend upon the Vapors as aforesaid: but in regard the Eyes are weakened by a true Suffusion, there is almost a continual sending up of vapors unto them, and therefore there is a continual appearance of these little Bodies flying in the Air. Moreover, there is a constant darkness of Sight in a true Suffusion, being always after the same manner, as if all the objects were seen through a cloud or thick glass, which is the proper Sign of this Disease; but in a Bastard Suffusion, there is sometimes a greater, sometimes a less, and sometimes almost no dimness at all of the Sight, even as the vapors are many, or few, or none that are sent to the Eyes.

Lastly, A true Suffusion grows in a short time, and is confirmed for the most part in Six Months, and sometimes it increaseth in a few days: and *Fernelius* saith, 5. *Pathol. cap. 5.* that a Suffusion was perfect in one day, which we also have often seen; but a Bastard Suffusion continueth many years without increase.

DIFFERENCES. The Differences among the true Suffusions are these:

In a Suffusion's beginning certain small Bodies, as Hairs, Gnats, Flies, pieces of Wooll, and Cobwebs, fly before the Eyes.

But when it is far gone, the Air appears cloudy, and the Objects are seen thicker, as through a glass;

glais, the colour of the *Pupilla* is changed, and it appears either troubled or cloudy, or like filthy glais; or of a Sky-colour when a Suffusion is perfect, the Sight totally perisheth: the *Pupilla* is either white, or of some other colour mixed with white.

SIGNS. Some Signs are taken from the Colour: for when it is like a Pearl in colour, it signifies that the flegm is still fluid and transparent; when it is white as Chalk, then it signifies a thick and compacted matter: when yellow, then flegm and choler are mixed: when black, it shews Melancholy.

The place in which the Suffusion grows, is thus known: For if the matter be placed between the *Uvea* and *Cornea*, the *Pupilla* appeareth more dark, because the matter is nearer to the beholder: Moreover, the *Pupilla* is dilated by the humor contained therein; and when the Disease is confirmed, white or red veins or swellings are perceived to be about the Iris, or circle of the Eye; or certain white spots appear about the *Pupilla*.

If the matter be contained between the CrySTALLINE and the *Uvea*, contrary symptoms will appear: as also the *Pupilla* will be contracted if the matter lie deep, and enlarged if the matter lie higher.

PROGNOSTICK. The Prognostick of this Disease is to be diversly made, according to divers seasons: For when a Suffusion is only begun, when the Patient can perceive an object as through a Cloud, it is curable as *Galen* saith, 14. *Meth. cap. ult.* and *Celsus lib. 6. cap. 6.* which Opinion wants a restriction: Namely, if the Patient be young, but in old it is incurable: and if the Eyes be not naturally of a weak constitution. We also have seen some that have been cured in fifteen days space, of a Suffusion newly begun, who have been above fifty years of age, only by universal Purging, sweating Diet, and a Velicatory, without any other application of Topicks.

This Cure is better wrought in a warm Air and in Summer time, because the Pores are then open, the matter or the Disease is more moveable and obedient; so that oftentimes it dischargeth itself by seege, which is very much to the Cure of this Disease; as *Hippocrates* sheweth, Aph. 16. Sect. 6. in these words: *It is a good sign, when men with sore Eyes have a loose Belly.*

If a Suffusion come from an acute Feaver, a *Peripneumonia*, a Phrenzy, or from a violent pain of the head, it is hard to be cured.

A Cataract or Suffusion confirmed when the matter is grown thick, cannot be dissolved with Medicines, but must be couched with a Needle.

This Operation is not safe, and often hath ill success: For either the Tunicle *Uvea* is torn, or by the pain and inflammation, a new Flux of humors is brought to the Eye, which hath been long before weak: and many other inconveniences by which the Sight is for ever lost. But since this Operation hath been sometimes successful, it may be tryed by those who have no other hopes of Cure; For it is better, as *Celsus* saith, to try a doubtful Medicine or Remedy, than none at all.

In a confirmed Cataract, if when the other Eye is shut, the *Pupilla* appeareth larger in the Eye affected, there is hope of cure by Couching; but if it be no larger, it is incurable, as *Galen* teacheth, 1. *de symp. caus. cap. 2.* because the Optick Nerve is obstructed, and the spirits cannot come to the *Pupilla*, though it be open.

But if the Patient perceive no light when the *Pupilla* is enlarged by the shutting of the other Eye, he cannot be recovered by the Needle, because the visive spirit is troubled and obscure, and therefore unfit for Sight.

A black Cataract, free from all brightness, can neither be cured by Physick, nor Chyrurgery, because the visive spirits are destroyed; but a clear Cataract that hath some splendor, is curable.

These also are incurable for the most part, a green, dark, very yellow and hard Cataract: and that which moveth and is coloured like Quick-silver.

A Cataract which representeth objects full of holes, is not to be tampered with: For since the matter is of the Center of the *Pupilla*, it is to be feared lest when the Needle is thrust in, the whole *Pupilla* be filled with the matter, and so the Sight be utterly lost.

The operation of the Needle is more successful in a full Eye, and that which keeps its natural greatness: But if the Eye be small and decayed, it is less successful.

In old men this Operation is not to be tryed, nor in Children, in them the Disease is incurable: in these the Humors are too soft being not ripe; there is most hope of success in young persons.

If this Operation be, when some part of the Suffusion floweth down (if the Eye be compressed) and appeareth more large, and after returneth to its former station and figure, it is not successful, because the Cataract is not yet ripe, but thin and crude. But if by a compressing with the finger there is no change of the shape and figure of it, it is then ripe, and may be couched with a Needle. But we must take notice, that the ripeness or thickness of the Cataract ought to be moderate, and not too much compacted, that it may be easily couched: for it ought to be like a thin skin which may be rowled about the Needle, and so couched down; for if it be too thick and solid, It cannot be couched, which

which you may perceive when it is like Chalk or Hail. Contrarily that which is fit for couching useth to be Sky-coloured and Sea-green, of the colour of Iron or Lead not black.

CURE. The Cure of a Cataract must be directed not only to the Conjunct, but to the Antecedent cause. And therefore you must purge the whole body, and especially the Brain very exactly. After you must discuss that humor which obstructeth the *Pupilla*, and some way soften it.

Which intentions, when they are almost the same which were propounded in the Cure of *Gutta serena*, we may use the same Remedies for diet, evacuation or purging of the whole body, for revulsion of the humor offending, and for the strengthening of the head and the eyes, so we shall not in vain repeat them.

Having therefore first used all that Method which was laid down for the Cure of *Gutta serena*, we will declare unto you those Medicines which belong properly to the taking away of the matter about the *Pupilla*. And though Topical Medicines are counted little worth according to *Galen's* Opinion, 2. *Katà tòpon*, who saith that they promise more than they can perform; yet their lawful use is not to be rejected, and experience hath taught by very good Authors confirmed, that Cataracts in their beginning after universal Medicines used, have been cured with Topicks, that is, Medicines applied to the Eye.

First therefore begin with mild dissolvers, and such as dry not overmuch lest the matter grow hard, and be made unfit to be dissolved; then use mollifiers with your dissolvers, that induration may be hindered, and it may more easily be dissolved. For this purpose the following Fomentation may be first used.

Take of the Leaves of Rue, Fennel, Eyebright, the greater Celandine, of each one handful; Fennugreek seeds one ounce; Camomel and Melilot flowers, of each one pugil: Boyl them in three parts of spring water, and one part of White-wine added towards the end of the Decoction. Foment the Eyes with a soft sponge dipt in the strained Liquor morning and evening.

Of the same Decoction you may make a Fumigation, covering the head that it may be received into the Eyes.

In the beginning of the disease, while the defluxion is new, and that revelling Medicines are used, it is good to wash the eyes with only red Wine, which by its astringion hinders the defluxion, and by its spirits discusseth and dissolveth it.

In the progress of the disease, a Fomentation of White wine, in which *Crocus Metallorum* hath been infused, is most profitable.

It is no less profitable to let a child eat sweet Fennel seeds in a morning, and afterwards breath into the Eyes.

As also to let him lick them, or to let a Dog lick them.

Also Bread hot from the Oven, in which is sweet Fennel seed cut in the middle, may be so placed to the Eyes that they may behold it when they are wet with the Vapor.

These Medicines are to be used in the morning.

At night you may apply this Cataplasm.

Take of Fennugreek seed beaten one ounce, Aloes half an ounce, Saffron one dram: make them into fine powder, put it into White-wine wherein *Crocus Metallorum* hath been infused, and make a Cataplasm to be applied to the Eyes at night.

Many commend Pigeons blood put hot into the eyes, for with the Natural heat of that Creature the part will be much strengthened, and the excrementitious matter dissolved: but because the heat will quickly depart from the blood, it is better to take a young callow Pigeon, and slit it in the back, and apply it to the Eye.

With these Medicines you may discuss the matter if it be possible.

Topical Medicines called *Collyria*, which are dropped into the eyes, are of little force, and those are they which *Galen* said did promise more than they perform; for all their virtue is spent in the *Cornea*, neither can they reach to the internal parts, except they be made very sharp, by which pain would be caused, and a greater defluxion: hence many that have used them immoderately, have from a light infirmity become stark blind. But because many of those *Collyriæ* are found in Authors which have good report by them; lest we should seem defective, we will shew some of the choicest, that they who please may try them.

Take of the best Honey two pints, Fennel Roots, and the Roots of long round Birthwort, of each one pound; the leaves of Rue, Eyebright, Celandine the greater, and the tops of Fennel, of each six handfuls: Centaury the less three handfuls: Roses four pugils, the Urine of a Boy two pints. Mix them all in a glass Vessel, and distil them in Balneo Mariæ. Drop this water often into the Eyes.

Or you may make Bread with the Bran in it, with the powder of Rue, Celandine, Eyebright, Betony and Fennel, with a little honey, which as soon as it is drawn and cut in pieces, must be put between two Pewter or Silver Dishes from whence will come a Water, which *Zechius* affirmeth, dropped into

into the Eyes doth wonders. Also this following is highly commended.

Take of white Violet Leaves, done handfull; Radish seed one dram, Ammoniacum half a dram, mix them and powder them, then steep them twenty four hours in one pint of Fennel water, then let them boyl a little space: add to the straining one ounce of the clarified juyce of Fennel: the Balsom of Peru, two drams, make a Collyrium, which Zechius saith, dropt into the Eyes morning and evening, after the Body is sufficiently purged, doth so cleanse the Eyes; that it takes away a Cataract wonderfully without Couching.

Hollerius describes a water, that he saith, cured one that was Nine years blind: Which is this.

Take of the juyce of Smallage, Vervain, Germander, Burnet, Avens, Sage, Celandine, Rue, Knot-grass, Chickweed, the powder of Cloves, of each one; gross Pepper, Nutmeg, Lignum Aloes of each three drams, steep them all in the Urine of a Boy, and the sixth part of Sack: Let them boyl a little, then straine them and press them, put it in a Glass close stoppt: drop every night some of it into each Eye.

The Juyce of Brooklime only, being often dropt into the Eyes, hath sometimes cured a young Suffusion, when a Cautery also hath been applied to the Coronal Suture.

The Juyce of Celandine and Calcitrap mixed together, are as good.

Quarcesan in his Dispensatory doth much commend Water in which Crocus Metallorum hath been infused, which is thus made:

Take of the water of the great Celandine, six ounces: Crocus Metallorum, one dram, infuse them, and drop three or four drops of this water warmed into the Eyes for three or four times a day for a long continuance.

Fonseca saith, That he knew one cured by this water, who was very dim sighted many moneths: This is the excellency of it, which few other Medicines have: It cleanseth very powerfully without any sharpness.

The same Fonseca says the water following is admirable:

Take many Swallows, beat them with their feathers in a Mortar, put to every pound of them four ounces of bread crumbs, of white Wine four pints: infuse them six days, and distil them in Balneo till they are dry: then set that water in a Glass in the Sun for twenty days, and drop it into the eyes morning and evening.

There is a water made of Rosemary flowers, which discusseth Films in the Eyes after this manner:

Take of Rosemary flowers as many as are sufficient to fill a Glass, which must be well stoppt, and set it in the Wall against the South Sun, thence will an Oyl come, which with a feather anoint the Eyes with.

Some Authors commend the Galls of Beasts because they cleanse and discuss strongly, but they cause pain with their sharpness, and therefore are seldom used.

Forestus, Obs. 35. Lib. 11. commends a certain Fish in his Country, out of whose Liver there comes a moisture, by which he saith Cataracts are presently, as by a miracle, Cured. See in the place cited the use of it. William Lozellus saith, That he hath Cured many stark blind, after universal Medicines have been used, with this Water:

Take of the Liver of a sound Goat, two pound: Calamus Aromaticus and Honey of each half an ounce: the juyce of Rue, three drams: the Waters of Celandine, Vervain, Fennel, Eye bright, of each three ounces: Long-Pepper, Nutmeg and Cloves, of each two drams: Saffron one scruple, Rosemary flowers bruised, half an handfull: Sarcocol and Aloes, of each three drams; the Galls of Ravenous Birds, Capons or Partridges, one ounce; let those that are to be sliced be sliced, and those that are to be bruised, be bruised; then mixed together, with two ounces of white Sugar and six drams of Honey of Roses, cast them into an Alembick of Glass: and distil them in Balneo Marie with a gentle fire, keep this water in a Glass close stoppt, for precious; which you may drop twice or thrice in a day into the eye affected.

Zacutus Lusitanus commends the water following in these words, For an old Disease in the Eyes, called Ophthalmia, or any other which cometh of overmuch moisture, gross humors and mists; as in thicknes, whiteness, the Haw and Suffusion; this Water is the best in his Experience, if after sufficient Purging, you drop six drops cold every night three hours after meat into the Eyes, then about two hours after, you shall have water flow out of them in abundance.

Take of Aloes, three drams: Rue, Fennel and Betony, of each two handfulls: Vervain and Tormentil, of each one handfull: Sarcocol three drams: the froth of Nitre, two drams and a half, Sugar Candy three ounces: Syrup of Roses, four ounces; the Urine of a young Boy, half a Pint: Lizzards dung, three drams, Horehound three handfulls: Eyebright one handfull and a half; Ginger, Spicknard, long Pepper, Cloves and Tutty, of each two drams: Balsom three drams;

Drams : Honey of Roses two Ounces : Verdegreece one Dram : Licium two Scruples : Radish-leaves one handful. Powder those which are to be powdered, mix them, and infuse them in the best White-wine in a Still, putting to a fourth part of the best Honey for ten days, and stir them daily, then distil them, keep the Water.

The same Zacutus commends the Oyntment following, in these words : For the drying up of moisture flowing from the Head into the Eyes, and for purging them by the corners very strongly ; this Magistral Oyntment is excellent, being applied after universal Evacuations from the Head and the whole Body ; let the upper Eyebrows be anointed lightly therewith Morning and Evening twice in a day three hours after meat, one hour after there will flow plenty of water from the corners of the Eye, especially from the great corner.

Take of the Oyl of Roses three Ounces : Rosewater nine Ounces : Camphire one Dram : Tutty one Scruple : Honey two Ounces : the Gall of a Goat half an Ounce : Lupin-meal half a Dram : Aloes-Succotrine one Dram : Sugar-Candy half a Dram : the juice of Horehound, Fennel and Rue, of each half an Ounce : Myrrh one Scruple : Ammoniacum half a Dram : Sarocol one Dram and an half. Powder them that may, mix them, and boyl them a little with a gentle fire, and the grease of a Goat or Sheep, and a little Wax : Make an Oyntment according to Art.

Finally, When all Medicines fail, when the Disease is almost desperate, it were good to try an Experience with the Oyntment of Quicksilver, which Fonseca saith was his invention, yet seldom used, for in his 19. Consultat. lib. 1. he thus saith : I have thought sometimes that the Unction used for the Cure of the French-Pox, hath power to take away Cataracts in their beginning and increase ; by the same reason that it takes away the Humors remaining in the Eyes from the French-Pox : for by it the Head maybe so purged, that a Cataract may be cured ; and I have determined to make tryal of it. Fonseca had much commended his Judgement if he had seen Skenius his Observation 309. Lib. 1. which is taken out of the 5. Book of Alexander Trajanus Petronus, of the French Pox, Cap. 1. One (saith he) before he had the French-Pox was blind of one Eye with a Cataract or thick Suffusion : by the Unction with Quick-silver was freed wonderfully from his Pox and Cataract both at once : Neither is it without reason that Cataracts may be dissolved with that Unction, when we see by Experience that very hard Tumors of thick and gross flegm are powerfully dissolved by the Unction of Quick-silver.

When a Cataract can be dissolved with no other Medicines, the last remedy is the Chyrurgical Operation, which with a Needle put into the Eye, after the matter of the Cataract being thick and turned to a little skin, thrusteth it to the lower part of the Eye, so that the sight is restored as if a Window were opened. This Operation is succesful sometimes, but often not : But when the case is so that no hope remains of other ways, it is better, according to the Opinion of Celsus formerly commended, to try an uncertain Medicine than none. But it useth not to be tried by reason of its uncertainty by ordinary Chyrurgeons, but Quack-salvers who go to and fro practising ; and therefore the time and manner of the Operation is to be left onely to them.

But because those things ought not to be hid from a Physician, you may find them exactly treated on in divers Practicall Authors when the Cataract is cured.

Whether it be with dissolving Medicines, or Manual Operation you must use a course of Physick long after, because there is a great fear of a Relapse : For the Eyes having been much weakned by a long Disease, are very ready to receive any Defluxion again from the Brain. Therefore you must follow the usual purging ; you must have Issues continually for diversion, and use often strengthners of the Eyes, such as are prescribed in *Gutta serena* : to which you may add a washing of the Eyes, which must be done every day thus.

In the morning first chew sweet Fennel-seeds some space of time, then fill the mouth with Wine, and after it is warm in the mouth, wash the Eyes therewith till they begin to smart, which will cease when you leave washing.

Moreover, Spectacles are very good to preserve sight which do make the Objects neither bigger nor less than they naturally are. And it is profitable to refresh the sight with green or sky-coloured Spectacles.

And lastly, You must avoid all things which hurt the sight, and use those things which help it, as is declared in the Diet for the Cure of *Gutta serena*.

CHAP. V.

Of the Enlarging or Dilatation of the Pupilla.

THe Tunicle is called *Uvea* out of *Galen*, 1. *de sympt. cause cap.* 2. is obnoxious to divers Diseases, and especially to Ruption, Distortion Dilatation and Constriction.

A Ruption may come both of an external Cause, as a stroke or contusion; and of an inward, when much humor distendeth and breaketh the Tunicle: but this being incurable concerneth not us.

A Distortion of the *Uvea*, cannot be but in the first constitution of it, because it adhereth to the *Cornea*. Therefore *Galen* in the place quoted doth onely reckon it among the different Symptomes of the *Uvea*, and doth not stand to explain it, because it is of no concernment in the practice of Physick. We therefore omitting the first two Differences, will only insist upon the explaining of the Dilatation and Constriction of the Pupilla.

The Dilatation of the Pupilla, which is a hole in the *Uvea* Tunicle, by which the Species of Objects pass into the Eye, is called in *Greek* *Mydrasis*; this hurts the sight, because too much light goeth into the Eye: hence it is that they which have this Disease see better in a darkish place than in a light. Which appears by natural and ordinary change in the Pupilla in bright and obscure places; for when the sight is exercised in a clear light place, the Pupilla is contracted that the light may go less into the Eye, and not hurt it too much, by dissipating and dispersing the Spirits: and hence it is that they which go out of a very light place into a dark, see almost nothing at their first entry, because the Pupilla being formerly contracted doth not in an obscure place receive light enough to make a perfect sight. After, when they have continued a while in an obscure place, the Pupilla is by degrees dilated to receive more light for the clearing of sight, and then those things which at first entrance were not seen, are clearly perceived. On the contrary, they which go out of a dark into a very light place, cannot at first endure the light, and their Eyes are much dazzled, because the Pupilla being much dilated before in the dark place for to get light enough into the Eye, when it comes suddenly thus enlarged into a great light, too much light gets into the Eye, and so makes it dazle and disturbs the sight. Whence it appears, that light necessary to sight ought to pass into the Eye in a moderate quantity, and for the receiving thereof, it is necessary that the Pupilla be moderately large..

CAUSES. Now the preternatural Dilatation of the Pupilla is either in the first Original, which is not to be tampered with, or comes of preternatural Causes, which are either Internal or External.

The nearest and most immediate of the Internal Causes is the stretching of the *Uvea*, which comes either of driness or repletion.

Driness doth stretch the *Uvea*, and makes the form of the Pupilla larger, as when Leather pierced through, when it is dried hath the hole larger: And this dry Distemper comes from long Watching, Feavers, and other dry Causes.

The Repletion of the *Uvea* when it distendeth it on every side makes the Pupilla larger, and this is produced either of vapors and wind sent into the Eye, or of humors flowing thither, or from the extraordinary increase of the watery humor of the Eye; or lastly, from the swelling of the Tunicle *Uvea* it self. To these Causes we may add, the Convulsion of the *Uvea*, which appeareth chiefly in Epileptical fits, for then all the Nervous and Membranous parts are distended, and so is also the *Uvea*; and this appears chiefly most manifest in Epileptick Children, in whom the Dilatation of the Pupilla is so great, that it is over all the Circle called *Iris*, and therefore the sight is abolished.

The Internal Causes are a stroke, or a fall, or a retention of the Spirits, as in Women in Childbirth, and Trumpeters. A stroke or fall makes a Defluxion to the Eyes, hence comes extending of the Pupilla; retention of Spirits makes wind and humors, from whence comes Distention.

DIAGNOSTICK. The knowledge of this Disease is not difficult, because it may be seen with your Eyes, especially if the Physician knew before it became infirm how large naturally the Pupilla was; as also if there be a hindrance of the sight by reason of the over-largeness of it.

Moreover the natural largeness of the Pupilla is known by this: If when you shut one Eye, the Pupilla of the other is larger, which will not be in a preternatural dilatation, because then the *Uvea* cannot be further extended.

Lastly, If this dilatation of the Pupilla be onely in one Eye, it is preternatural, and signifieth one Eye onely is affected.

PROGNOSTICK. As to the Prognostick, the Dilatation of the Pupilla from the Original-so, is incurable: but that which cometh after is hardly cured, especially that which comes of driness, but that which comes of other causes if it be of small continuance, is incurable; because young Diseases

Diseases of the Eyes, according to *Galen's* Doctrine may be cured, but old may not but with very much difficulty be cured.

CURE. The Cure is to be varied according to the variety of the Cause; and if it come from driness, which can scarce come from an internal cause, but also the whole Body must be so afflicted; therefore we must refresh the whole Body with moist Remedies and Nourishments, and such as are restorative, such as we use in Heſtive Feavers; but more peculiarly the Body is to be moistned with a Bath of warm water and new Milk, which also must be often put into the eyes, especially Womans Milk.

If it comes from a Humor which filleth the eye, because it floweth from the Head, you must purge the Head and the whole Body also, and then you must discuss the Humor that is fixed in the eye. Which seeing they may be sufficiently performed by the Remedies propounded for the Cure of a Cataract or Suffusion, we shall not in vain repeat them here, but send you to the aforesaid Treatise for them, where you shall find all things necessary for the discussing and dissipating Humors contained in the eyes: yet you may after use some Astringents which may make the Pupilla which is too much enlarged more narrow; for this end you may make use of this following Collyrium or water for the eyes:

Take of red Roses dried two scruples; Saffron, Spicknard, the Bark of the Frankincense-Tree, of each half a scruple; Tutty prepared, burnt Ivory and Acacia, of each one scruple. Bring them into a Powder, and put them in a thin Linnen Cloth and tye it; then hang it in three ounces of Rose-water, and wash the Eyes often with the Water, dropping into them, squeezing the Cloth as often as you use the Water.

If it comes from Wine (after universal Evacuations) those Medicines are to be used which discuss Wind in the whole Body, and especially in the eyes, and so they may be fomented with the Decoction of Fennel, Rue, Dill, red Roses, Myrtles made in Rosewater with the fourth part of White-Wine.

Finally, If it come with a stroke, you must alter the manner of Cure, according to the greatness of the Contusion; and if there be an Inflammation, you must cure it as an Ophthalmy; but if there be no Inflammation, you shall at the first apply a Cataplasim of Bean-flower, Plantane leaves, and red Roses made up with Rosewater. After that, you shall often drop therein the blood of a Pigeon, which is a most excellent Remedy in all Wounds and Contusions of the eyes.

CHAP. VI.

Of the streightness or Contraction of the Pupilla.

THe Pupilla being too streight hindereth the Sight, as the being of it too large, as was shewed in the former Chapter, because a moderate largeness of the Pupilla is necessary for receiving perfectly the visible Species. So when the eye is in its natural condition, and is in a light place, the Pupilla is contracted lest it should take in too much light, if suddenly it be in a dark Room, the thing therein contained are little or scarcely seen at the first entrance, by reason of the aforesaid contraction. Afterwards when the Pupilla is dilated, all things are seen rightly, therefore in a place moderately light, the breadth of the Pupilla ought to be moderate, that it may receive moderate light, not too much, nor too little for making a perfect sight: But if the Pupilla be too narrow, it receiveth not light enough, therefore they who are so affected, the sight is diminished, yet they see well in a very light place, because at that time light sufficient will pass through a narrow hole, if no other Disease of the eyes be joyned with it.

CAUSES. Now the narrowness of the Pupilla cometh either from the Original, or first Constitution, and then it little hindreth; for if they who are so affected see less in a dark or dusky place, than they who have a Pupilla of its moderate natural breadth, yet in a clear light place they see better. Hence *Galen* said in 1. *de symp. caus. cap. 2.* That they who are born with small Pupilla's see best.

Or the streightness of the Pupilla comes from preternatural causes, namely, over-much moisture, driness or defect of the watry humor, and want of Spirits.

The Pupilla is contracted by humidity, when the *Uvea* is relaxed, and so makes the hole less or narrower: For although the dilatation of the Pupilla come of the same humidity, yet contrary effects come not of the same cause, because if the cause may be called the same, it ought to have the same relation to its effects, but Humidity is not in the same manner when it makes a Dilatation, for it makes that by filling and distending the Membrane, but it makes the *Angustia* or narrowness by relaxing it, it relaxeth when it is united to its substance.

Concerning driness, there is the same difficulty, since it is mentioned among the Causes of dilating the Pupilla. But this is the difference, When the *Uvea* is dried, and the Humors of the Eye remain

main in their due quantity, then it makes a dilatation of the Pupilla, because it loseth not the Extension which it formerly had, as was said in the precedent Chapter concereing Skins extended when dried make their holes larger ; but if the Tunicle *Uvea* when it is dried, wrinkled, falls together and loses its former Extension from the defect or diminishing of the humors of the Eye, then is the hole of the Pupilla made straighter.

And so the constriction of the Pupilla by dryness will be almost the same with that which happeneth from a defect of the watry humors of the Eye ; although it may come without driness, when by the pouring forth of the watry humor the *Uvea* falls down.

Lastly, The narrowness of the Pupilla comes from the defect of Spirits, or from the fewness of them, when by reason of the Obstruction of the Optick Nerve or some other cause, the Visive Spirit cannot come to the Eyes, which when it is filled with Spirit keeps its Tunicles extended ; but when it wanteth Spirits, they grow lax and fall together. Hence the constriction of the Pupilla usually cometh : This appeareth in very old men, in whom the Pupilla is made narrow by reason of the want of Spirits.

DIAGNOSTICK. This Disease is known easily being open to the sense, for if one Eye alone suffer, by comparing it with the other, you may perceive the straightness of the Pupilla ; but if both suffer, by looking upon the Eyes of another man who is sound sighted, you find it out.

PROGNOSTICK. As to the Prognostick, a straightness in the Pupilla which cometh from the loss of the watry humor in the Eye is incurable, because when that is once lost it cannot be recruited, especially in old folk ; in young people sometimes the watry humor of the Eye hath been let forth by a Wound, and hath been repaired again. A constriction of the Pupilla from driness can scarce and very hardly be cured ; but that which comes from moisture in the beginning and being young, may easily be cured, but an old one very hardly.

CURE. The Cure of this Disease differeth not from the former, for they come both from the same Causes, namely, Driness or Moisture, which Distempers although they produce contrary Effects, after the manner before explained, yet are they to be cured by the same Remedies.

CHAP. VII.

Of Albugo, or the White Spot, called Pin and Web, and of other Colours of the Cornea changed.

THE Natural Constitution of the Cornea Tunicle is destroyed when it loseth its brightness and transparentness, or when it is infected with another colour.

It loseth brightness when it is grown thicker ; now the Cornea doth grow thick by driness, as in old men, which is incurable : or by gross humors fastned upon it, which happeneth often in Ophthalmia, when either by too much use of Resolving Medicines the inner parts of the Humor are dissolved, and the thick remain. Or when by an extraordinary use of cold Medicines the humors are thickned ; and the Cornea doth not onely become thicker in that part unto which the humor is fastned, but it also contracteth a white colour, which is called *Leucoma* or *Albugo* ; sometimes this also comes from a Scar after an Ulcer, whereby the Cornea is made thicker in that part, and loseth its transparentness.

DIFFERENCES. The Differences are divers, as they are more or less thick ; one doth possess onely the Superficies of the Cornea ; another lies more deep and pierceth the whole Cornea ; another is greater, and possesseth the whole Pupilla or the greatest part thereof ; another is less, and comprehendeth but a little space of the Pupilla, and then it is properly called *Macula*, or *Pin* and *Web*.

The Cornea is altered in colour when it is blood-shot, which Disease is caelld *Sugillatio*, and then all Objects appear red : Or when Choler is got into it, as in those who have the Yellow Jaundice, and then the Objects use to appear yellow according to *Galen's* Doctrine, which is to be understood of a great effusion of Choler upon the Cornea, for if it be only lightly dyed therewith, which often happeneth, (for the Tunicle *Adnata* receiveth more Choler than the Cornea) then the Objects will not seem yellow, but as they naturally are.

DIAGNOSTICK. These Diseases need their peculiar Diagnosis for the knowledge of them, because they are apparent to the Senses, but especially *Albugo*, which is thicker and more white, and more hindreth the Sight : So also that which is more superficial is more white ; but that which is deeper declineth unto black, because it is nearer to the *Uvea*, which being its self black, communicates its colour unto that.

The Causes which produce these, are easily known by what hath been said; namely, if an Ophthalmia or Wound or Ulcer went before.

PROGNOSTICK. As to the Prognostick, an *Albugo* which comes of Flegm, or a thick Humor remaining after an Ophthalmia, it is easily cured, especially if it be not inveterate; but that which cometh after a Wound or Ulcer, and is a Scar, is very hardly cured, because in a part which hath exquisite sense, sharp Medicines, such as are proper to wear away a Cicatrice or Scar, cannot be endured.

CURE. The Cure of an *Albugo* congealed or gathered in the *Cornea* from Flegm, is done by Emollients, attenuating and discussing Medicines, but by always using universal Medicines first which may take away the Antecedent Cause, and hinder a new Defluxion from the Eyes, which would be caused by applying Medicines to the place, especially if they be sharp or hot, except the matter be first removed.

Therefore first make universal Evacuations, then Revulsions, then Derivations, as is set down in the Cure of *Gutta Serena*, and a *Cataract*.

Afterwards apply a Fomentation to soften the hard matter (with soft Spunges) made of the Decoction of Fenugreek, Melilot, Celandine and Fennel.

Or, let the Vapor of it be taken into the Eyes; and to this purpose you may make this that followeth;

Take of Marsh-mallow-Roots one ounce; the leaves of Mallows, Eyebright, Celandine the great, of each one handful; Linseed and Fenugreek, of each three drams; Melilot-flowers one Pugil. Make a Decoction of these in Spring-water, and let the steam or vapor of it be taken into the Eyes Morning and Evening.

Afterwards use Discussives, such as are prescribed in the Cure of a *Cataract* or Suffusion, for they also will do well here. And so *Collyria* (Eye-waters) which do attenuate and resolve the Humor fastned in the Eye, may be taken from thence, and especially those which are made of Honey and things which quicken the Sight: For the water of Honey distilled used alone, is very good to take away all blemishes in the Eye if you continue the use of it any time.

Sugar-Candy is good for the same, dissolved in the Water of Eyebright, Celandine or Fennel.

As also it would be very good to let a Child that hath chewed Fennel-seed to lick the Eye often.

Amatus Lusitanus reports, That he cured thick Clouds in the Eye of a Girl of twelve years of age, after he had given the Decoction of Sassa twenty days, with this Medicine;

Take of Honey from the Hive two pints; the tops of Fennel, the Flowers of Elder and Eyebright, of each two Pugils; Sugar-Candy four ounces; distil them in Balneo Mariæ, and let the Water be dropped into the Eyes.

The Seeds of Clary put into the Eye at Bed-time purge the Eye from filth, and so cleanse it, that it conduceth to the Cure of *Albugo*.

The Juice of Fennel doth potently discuss an *Albugo* if newly made, and mixed with a drop of the Balsom of Peru.

The same doth an Oyl made of burnt Rags mixed with the spittle of a Child, and laid on with a Feather: It is made by burning of a linen Rag, and quenching it between two dishes, when it is cold you shall find the Oyl in drops upon the Dish.

But *Albugo* coming of a Scar, is cured with Remedies that are good to mollifie, attenuate and dissolve Scars; but since such are always sharp, you must be more careful in applying, first universal Medicines and Revulsives, lest a flux of Humors be brought to the part. Having therefore used them as aforesaid, first it is good to apply emollient Fomentations or Fumigations above prescribed: then use abstergent and discussing Remedies; first, those that are gentle, such as are above mentioned, especially the compound water of Honey. After you may come to stronger, such as are the Galls of Fishes, of the *Uranoscopus* or one-ey'd Fish; of the *Pastinaca*, or Fish like the Ray, or of the Pike; as also of other Creatures, as of a Partridge, Cock, Goose, Oxe and others. After the same manner may be used the Juice of great Celandine, of the lesser Centaury, of Brooklime and the like, which must be mixed with Honey, both because Honey hath a cleansing and discussing quality, as also because liquors that are put into the Eye flow to the corners, and stay not in the Pupilla in which their operation is required; but being thickned with honey, they cleave well to the Eye: but if their sharpness cannot be endured, the said Juices or Galls may be thickned with the Mucilage or slime of Gum-Tragacanth, of Fleabane, or of Quinces, being drawn with the water of Fennel, Eyebright, or other proper to the Eyes.

The form of a *Collyrium* made of Juices, is thus;

Take of the juice of Fennel, Celandine and Brooklime, of each three drams; the juice of the lesser Centaury half an ounce: white Honey one ounce. Mix them like a Liniment. If with the *Albugo* there be redness of the Eyes, the *Collyrium* made of Salt, White-Wine and Wheat, prescribed

in the Ophthalmia, is very good. Or this,

Take of Aloes and Agarick, of each one scruple, Powder them, and tye them in a clout, which steep in the water of Eyebright or Fennel, and wipe the Eyes therewith Morning and Evening. Aloes doth cleanse, strengthen and stop the Defluxion. Agarick doth powerfully cleanse.

Sugillatio or Bloud-shot, or that red colour in the Eye which cometh of bloud sent thither, if it be young, is easily cured with Pigeons bloud dropped in; but in the want thereof you may use Womens-milk with a little Frankincense and Saffron. Or you may apply the yelk of an Egg with Wine, which is commended by *Galen* 4. de comp. Med. sec. loc. cap. 8. But if the Disease be stubborn, you must foment the Eye with the Decoction of Fenugreek, Marsh-mallows, Fennel, Rue, Celandine; or let the fume of the same be received into it. And finally, all Medicines prescribed in the Cure of a Cataract may be very proper for the Cure of this; but more especially when the Disease is old, and the redness turneth back, *Galen* commends dried Hyfop tyed in a Rag and put into hot water, applied to the Eye: and Experience teacheth that this Medicine is of such force, that the bloud is drawn away by it sticking to the clout.

And lastly, The yellow colour of the Jaundice, which most appears in the Eyes when the Jaundice is cured, is easily discuffed. If you would hasten the Cure, take the Fume of Vinegar into the Eyes.

CHAP. VIII.

Of Ophthalmia, or Inflammation of the Eyes.

THE Tunicle called *Adnata* is so joyn'd to the *Cornea*, that many diseases are in both; as the Inflammation of the Eyes, though it is proper to the *Adnata*, yet it is often extended to the *Cornea*, and produceth divers Diseases in it, namely, Ulcers, *Hypopyon*, when matter is underneath *Albugo*, or *Pin* and *Web*, and others. So also Pustules and other Tumors, Wounds and Ulcers are common to both Tunicles. Therefore because all the Diseases of these Tunicles cannot be spoken of severally, we will onely speak of the Diseases of the *Adnata* before we speak more of the *Cornea*.

Beginning with an Ophthalmia; We say, that it is as the word in *Greek* sheweth, onely an Inflammation of the Eye, and by all Authors it is used for the Inflammation of the *Adnata*, or *Conjunctiva*. It is called by the *Latines* *Lippitudo* or bloud-shotness, since *Cornelius Celsus*.

DIFFERENCES. This Inflammation as it is greater or less, hath a threefold Difference. The first is called in *Greek* *Taraxis*, in *Latine* *Conturbatio*, which according to *Paulus* cometh from an external Cause, namely, the Sun, Smoak-Dust, Oyl, and the like: but it may also come of an internal, namely, by fault of the Stomach after drinking of Wine, or other Distempers; and this is a light Inflammation called *Phlogosis*, with a small pain and redness, yet it sometimes turneth into a true Ophthalmia, and is the Original of it.

But a true Ophthalmia comes always from an internal Cause, and it is a true Inflammation with which Tumor, redness and pain, it is called by *Celsus*, *Lippitudo* or bloud-shotness, because there cleaveth a thick Excrement, which the *Latines* call *Lippa*.

The third is called *Chemosis* in *Greek*, in *Latine* *Chemosis* also, and it is when an Inflammation groweth so high that it is very great with vehement pain, and both the Eye-brows are inverted, so that the Eyes can scarce be covered therewith; and the white of the Eye stands higher, and the red doth cover most part of the *Iris* Circle. In Children, and such as have great Eyes, this hath often happened, and it comes from a greater repletion, and from Flegmy humors.

There is another difference of the Ophthalmia taken out of *Hypocrates*, *Aph.* 14. *Sect.* 3. by which it is divided into a moist and a dry Ophthalmia: The moist Ophthalmia is that which is already described, and hath a weeping. But the dry Ophthalmia called by *Hypocrates*, *Xerophthalmea*, which cometh in dry weather, is made of Choler, or burnt or adust Melancholy, and is such as wanteth humidity in part, and therefore there is no weeping. There are other subdivisions from the adjuncts, for if there be an itching joyned with it, it is called *Pforophthalmia*; but if it come with hardness of the Eye-lids, it is called *Sclerophthalmia*.

There is also another difference of Ophthalmies taken out of *Galen*, 2. de diff. febrium, Cap. 11. where he saith, That some are Periodical or such as come by fits, to those which have a very hot and moist head and weak Eyes, fit to receive a Defluxion. These after many years have a consumption of their Eyes and lose their sight; hence it is called *Tabida Ophthalmia* or a consuming Ophthalmia, or an Ophthalmia which ends in a consumption of the Eye.

There is also another difference taken from the immediate causes which is Defluxion or Congestion,

on, that is, gathering of Humors. It comes for the most part by Defluxion, but by congestion onely, when there is either a Distemper or weakneis of the Conjunctiva, by which there is no equality, or *Omorosis* in the part, but many Excrements are gathered together, from whence through the weakneis of the part cometh an Inflammation.

CAUSES. The Conjunct cause of an Ophthalmy is cholerick or watrishi or melancholick blood flowing into the eyes, or gathered into them. The Causes of a Defluxion are manifold, both external and internal ordinarily known. But the causes of Congestion or Cumulation are all such as distemper or weaken the Eyes; so that an Ophthalmy, which at the first came onely by defluxion in itself, by weakning of the part may spoil its concoction, and so it may be said to be an Ophthalmy partly from Defluxion and partly from Congestion, which is often seen in old Ophthalmies.

But when an Ophthalmy comes by way of Defluxion, it is certain that it comes for the most part from the Head, and almost all Authors acknowledge this. Notwithstanding Experience teacheth that many violent Ophthalmies come from the Liver, and the Humors that come from thence to the Eyes, inso much that Cauteries applied to the hinder part of the Head, increaseth the Disease; which otherwise are good Remedies when the Defluxion is from the Head, for they draw up the Humors; and we have often seen that old Ophthalmies, which were accounted incurable, have suddenly gone away of their own accord, by stopping of an Issue which hath long been kept open, namely, when the motion of the Humors from the inferiour to the superiour parts hath ceased, which before was caused by the Cautey or Issue in the Neck, by Nature sending part of the Humors to the weakened Eyes not far distant from the Issue.

That Defluxion which cometh from the Head, either is carried by internal Veins which are under the Skull into the Eyes, or by the external Vessels, which is most frequently, namely, by the Veins and Arteries which come from the Pericranium by the Forehead and Temples to the Conjunctiva.

An Ophthalmy is easily known, because the blood diffused upon the Conjunctiva may be easily seen, and if redness appear without a Tumor coming of an external Cause, it is called *Taraxia*, or Conturbation. But if besides the redness there be swelling and heat with weeping, it is a true Ophthalmy, and at length if it so increaseth that it cover the black of the Eye, and the Eye lids be inverted, then it is called *Chemosis*.

SIGNS. Hence we fetch the Signs of the Causes, for if it come from Repletion and of blood alone, not only the Tunicle *Adnata*, but also the whole face will be red; as also there will be a swelling of the Veins, drowsiness of the Senses and whole Body, and a manifest swelling.

If it come from cholerick blood, there will be sharpness of tears, and not only the corners of the Eyes, but also the very cheeks will be corroded, there will be a pricking and intollicable pain, a little swelling with redness inclining to yellow; and the Patient hath formerly used immoderate exercise, been inflamed by the Sun, subject to anger, and eating of sharp things, his Complexion is cholerick, or he is young, and the Disease cometh in hot Weather.

If it come from Flegm, there will be heavy pain, little heat, not much redness, little shooting, no sharp tears, but many and slimy Glutinations.

If it come of Melancholy, the Tumor will be small, the redness will be dusky, few tears, little clamminess, but very thick, a melancholick Constitution, and the like signs of Melancholy.

If the Defluxion come from the inner parts of the Head, there will be a pain in the head internally coming to the roots of the Eyes. But if the Defluxion come into the Eyes by the external Vessels, the pain of the Head will be more external, the Veins of the Forehead will be distended, and also there will be perceived a great bearing in the Temples.

PROG. The Prognostick is either in respect of an Ophthalmy coming, or already begun.

An imminent *Lippitudo* is known by an itching and pricking in the Eyes, with heat also, and the disposition of the Eyes to receive Defluxions doth give advantage to the Prognostick of it, wherefore they who have great Eyes are most subject to this Disease. Moreover, the season doth much conduce to the breeding of it, as *Hypocrates* teacheth, Ap. 11. Sect. 3. If the Winter be dry and full of North winds, and the Spring rainy, and with South winds, in Summer you shall have sore Eyes very common, especially in Women, and men of moist Constitutions.

A Flux of the belly coming upon an Ophthalmy is good, according to *Hypocrates*, Aph. 17. Sect. 6. because the Superfluity of Humors is discharged and caried downwards.

An old pain in the Eyes is very dangerous, for it signifies the cause to be violent, and it is to be feared lest an Imposthume, Suppuration or Ulcer do follow.

An Ophthalmy beginning in one Eye useth ordinarily to pass to the other.

CURE. For the Cure of an Ophthalmy, the external Causes must be first removed, as also the Antecedent Causes are to be evacuated, revelled and repelled; the Conjunct Cause is to be derived and discussed and the part affected strenghtned. For the performing of which Indications there are these usual means to be applied.

First, Let his Diet be cooling and moistning, of Meats that breed good Nourishment boyled rather

ther than roasted; of supplings rather than solid things, because the Eyes are moved in chewing: let him avoid sharp things, Salt and Pepper: As also things that fume and will fill the Head with Vapours; as also such as quickly turn into Choler, as Milk, Sugar, Honey, and all sweet things: Wine especially is not good, but instead thereof use Barley-water with Liquoris and cooling things.

Sleep is very profitable, because then the Eyes rest from motion which is apt to stir up pain and defluxion; besides pain is asswaged by sleep, and the matter causing the disease is concocted: Let the Patient sleep with his Head high; and more inclined to that side which is least affected.

Let him avoid all motion of his Body, for rest is so profitable, that *Celsus* commands that the first day of Cure they speak not, lest by that motion matter be carried to the Head.

The Belly must be kept soluble, for *Hypocrates* saith, It is good for him that hath sore Eyes to fall into a loolsie.

Let him avoid Passions, especially Anger.

Let the Air be temperate and pure, without Smoke, Dufts and Winds, and somewhat dark; for the light by moving the Spirits causeth defluxion: Let him have a black, green, or sky-coloured cloth before his eyes, and keep not onely his fore, but his sound eye shut or covered: for while the sound eye is moved towards the Objects also; the fore is moved whence the pain increaseth; and this is the reason why men have greater pain when one Eye is affected, than when both.

The Diet being thus ordered, let us lay down the Cure of the Disease; and since it comes for the most part of External Causes; first let them be removed lest they nourish it: Next make a Collyrium, or Eye-water, of Rose and Plantane-water, with the White of an Egg and Womans-milk, and let that be instilled into the Eye often in a day, as also let a linen clout be dipped therein and applied.

At the same time let him sleep as much as he can, for sleep is very profitable to concoct and dissolves the matter causing the Disease. If it yield not to these, you must use the Remedies proper for a true Ophthalmie in this Order.

First open a Vein (having given a Clyster) on the contrary Arm, and do it often, till you have made sufficient Evacuation and Revulsion: For *Avicen* teacheth, That in a true Ophthalmie you may let blood till they faint. But *Galen*, lib. de curat. per sangu. miss. cap. 17. tells a story of a Steward which was freed of a great Ophthalmie by blood-letting, first three pound, and four hours after one pound: And in his 16 cap. of the same Book he affirmeth, That Ophthalmies are often cured in an hours space onely by Phlebotomy: which could not be but by losing of a great quantity, as they did in those times in that case.

Phlebotomy must be regulated and moderated according to the temper, age, sex, strength, and kind of the Disease; for in a Plethorick body, and when it comes from blood, you must take a greater quantity: But in a cholerick body, or melancholy, or flegmatick, and other Circumstances which prohibit blood-letting, you must take less.

If the whole Body be full of blood, first open the Liver or Median-vein, after the Head-vein; but if you intend to lose but little blood, begin with the Head-vein.

But in them who have a stoppage of any ordinary accustomed Evacuation by the Terms or Hemorrhoids, you must open the Veins beneath, or apply Leeches to the Hemorrhoid-veins.

After you have bled enough, you must labour to make Revulsion by applying of Cupping-Glasses to the shoulders and the back, both dry and with scarrification.

Frictions are good for the same, and Ligatures in the lower-parts.

To the aforesaid Revulsions you must add means to derive, which are by the opening of the Veins of the Forehead and Temples; to which some add the opening of the Veins in the corners of the Eyes: others apply Horseleeches to the Temples, others behind the Ears; all which derivations are very profitable after sufficient Evacuation.

Galen 13. Meth. Cap. 22. Commended the opening of an Artery in the Temples, when the Disease comes of very hot blood: And though this way of practice is not used in our times, yet it is very excellent and profitable, without any danger; for in those lesser Arteries the blood is stanch'd by good Ligature and bondage only: nor is the Plaister mentioned by *Galen* in the same place necessary, which is made of Bole, Mastick, Frankincense, and the hair of an Hare, with the White of an Egg: yet for the better security, they who are afraid of the opening of an Artery, may make use of it: you may see what we have said concerning the opening of Arteries in the Cure of the Headach.

Vesicatories also are very profitable in this Disease, both applied to the Neck and behind the Ears.

When you have bled sufficiently you must purge, that the Cholerick Humors, especially such as make the blood hot, may be evacuated: And *Hypocrates* saith, it is very requisite, *Aphor.* 15 *Sect.* 6.

Sect. 6. For it is good for him that hath an Ophthalmy to fall into a Flux. And Galen, 13. Meth. cap. 11. saith, That he hath seen some who began to have sore Eyes to be cured in one day only by a Purge. But it must be made of gentle ingredients, and such as do allay the heat of the blood, taking heed of all Medicines that have Scammony in them, and they be made thus;

Take of Tamarinds half an ounce; clean Senna three drams; Annis-seeds half a dram; Endive; Succory and Fumitory, of each half a handful; boyl them to four ounces, and when it is strained, infuse in the Liquor of the best Rhubarb and yellow Myrobalans rubbed with the Oyl of sweet Almonds, of each one dram; yellow Sanders half a scruple. After strain it again and dissolve of Manna and Syrup of Roses, of each one ounce. Make a Potion.

Or in Form of a Bolus, thus:

Take of Cassia newly drawn six drams; Liacatholicon three drams; Powder of Rhubarb one dram: make a Bolus with Sugar.

So many times we prescribe Pills in an Ophthalmy which comes of Flegm, namely *Lucis majoris* of Agarick and the like: which though they are very good in the state of the Disease, yet it is better to abstain from them in the beginning, lest the Humors moved with too violent a Medicine should fall more upon the part.

Nor is one Purge sufficient, but you must repeat them at a distance, if the Disease be old; first giving good Preparatives by Apozemes or Juleps proper for the Humor offending: therefore in the beginning allay the heat of the Humors with cooling Juleps, and such as thicken; or with Emulsions made of the greater Cold Seeds, Lettuce and white Poppy-seeds, in some cooling decoction, with a little Rosewater.

After universal Revulsions and Evacuations come to Topical Medicines with that part, which from the beginning must be repelling; yet the soundest Practitioners do warn us not to use repelling Medicines to the Eyes at first, because for the most part they stop the Humor and retain it in the Eye, and so increase the grief and inflammation: For Galen Comment. Aphor. 3 1. Sect. 6. reproves a certain Oculist which used these kind of Medicines in the beginning of the inflammation; for they may be suspected in the beginning not to stay violent Defluxions, but rather to keep them from coming forth. Hence it cometh to pass, that when the Humors are sharp, the Cornea is sometimes ulcerated, but when they are many it is streaked and sometimes broken. But Avicen, *sen. 3. lib. 3. tract. 1. cap. 9.* saith, That it is fit, that if possible we abstain from Collyriums the first three days. And a little after he saith, That we ought not in the beginning to apply strong Astringents and Thickeners, because they thicken the Tunics or Coats, and hinder Resolution and increase pain.

Yet we need not be so exact in the time and number of days, because the Disease is in some older, and in some younger: but we may with profit apply Astringents at the beginning to the Forehead and Temples: for by those, the Veins by which the Humors flow to the Eyes are stoppt, and they driven back.

The form of this is as followeth;

Take of Bole-armenick, Sanguis Draconis, Frankincense, Mastick, of each one dram; red Roses, Balaufts, or Pomegranate flowers, and the Powder of Lentils, of each two scruples: mix them with the White of an Egg and Vinegar of Roses, and make a Cataplasme for the Forehead and Temples.

Moreover, a Cataplasme made of the juyce of Nettles and Wheat-flower, applied to the Forehead and Temples, is excellent to stay a Defluxion, by reason the juyce of Nettles hath a special Virtue for the stopping of all sorts of Bleedings, as it doth the bleeding at the Nose or Mouth.

But if the pain be very great, which useth to increase the Defluxion upon the Eyes, you must apply Anodines or Medicines asswaging pains, upon them. Among which new milk, especially if it be that which a sound Woman giveth, is best, if it be often milked fresh into the Eyes from the Breast, and not be used stale, for then it will grow fower and be offensive to them; instead thereof you may use fresh Cheese made of Sheeps-milk, which you must often change, lest it turn like Butter, and so inflame the Eye.

The White of an Egg well beaten till it turn to water, is commended of Galen, for it asswageth pain, and gently stays the Flux.

Also an Apple roasted in the Embers doth much asswage the pain of the Eyes.

The Mucilages or slime of the Seeds of Fleabane, Quinces, Fenugreek drawn with Rosewater, do take away pain; but they must be renewed every day or they will grow fower.

Of these things you may make divers kinds of Medicines. As for Example;

Take of the Pulp of a sweet Apple roasted in the Embers, one ounce; the Mucilage of the Seeds of Fleabane and Quinces drawn with Rosewater, of each six drams; the White of a new laid Egg beaten into Water and Womens-milk, of each one dram. Make a Cataplasme and apply it to the Eyes. Or,

Take of the Pap of a roasted Apple one ounce; Crums of White-bread half an ounce; one Egg mixed with Breast-milk. Make of these a Cataplasme.

Thin slices of Goats-flesh, Veal or Mutton, often applied to the Eyes, do very much assuage pain.

A Cataplasme may be made more easily with Crums of White-bread, and Womans-milk mixed with Rosewater.

If the pain be intolerable, you must fly to Narcotick or stupifying Medicines, which you must use sparingly and with good advice, because they do thicken the Visive Spirits, and make the Humors and Tunics gross, by which the sight will become dim.

Among Narcoticks for the Eyes, the white Troches of Rhasis are principal, made with Opium thus:

Take of Rosewater two ounces; the water of an Egg well beaten one ounce; the white Troches of Rhasis with Opium one dram. Make a Collyrium or Water for the Eyes.

When the pain is assuaged, you must come to repelling Medicines, which must be gentle and mixed with Anodines continually: for this end make this Collyrium following:

Take of Plantane and Rosewater, of each one ounce and an half; the Water of the White of an Egg beaten one ounce; the white Troches of Rhasis with Opium one dram. Make a Collyrium and drop it often into the Eyes.

If the pain be very great, you may put to it Womans-milk, and the Mucilages aforesaid.

This following Medicine doth powerfully resist Inflammation, and stay the Flux.

Take of the white of an Egg, beat it in a Pewter-dish with a piece of Allum very well, till it come to the consistence of an Ointment, which you must spread upon a linen-cloth, and apply it warm to the Eyes: After two or three hours take it away, lest by its long continuance having an extraordinary astringent quality from the Allum, it retains the Humors in the Eyes.

Also the water of Allum distilled in an Alembick, laid to the Eye with a Linen-clout, doth allay the Inflammation thereof.

The Salt of Lead dissolved in Rosewater, or Water and Vinegar, or mixed with Pomatum, doth powerfully cool the Inflammation.

In the increase of the Disease you must mix Digestives with Repelling Medicines, and therefore you must put in the Water of Eyebright, Fennel, Celandine, and the Mucilage of Linseeds, *Althæa* or Marsh-mallows and Fenugreek. *Gal. 13. Meth.* commends especially the decoction of Fenugreek, because it digesteth, concocteth and moderately repelleth: but you must sift the Fenugreek to take out the dust, and after wash it often in warm water; before you boyl it or make the Mucilage of it, you may thus make a Collyrium;

Take of the Mucilage of the seed of Fenugreek, and Quinces drawn with Rose and Eyebright Water, of each one ounce and an half: the white Troches of Rhasis with Opium one dram; Tutty prepared half a dram. Make a Collyrium.

When the disease is at the height, you may put Sarcocol to it, which is of a more digestive quality; since it is apt to hurt the Eyes by its over-driness and sharpness, it must first be steeped some few days in Milk, often changed, and you must prepare but a little at one time, for if it be long kept it will grow sour and hurt the Eyes. You may use it thus:

Take of the Flowers of Camomel, Melilot and red Roses, of each one Pugil; the Seeds of Fenugreek cleansed one dram; boyl them in Plantane-water. Dissolve in four ounces of the straining, Sarcocol one dram; Tutty prepared, and of the white Troches of Rhasis without Opium, of each half a dram. Make a Collyrium.

Authors do commend some Waters to be very powerful.

Quercetan commends the infusion of *Crocus Metallorum* made in Eyebright and Fennel-water, which is strong enough, and is no ways too sharp for the Eyes as others are.

Crollius and the rest of the Chymists, do highly commend the Salt of Lead dissolved in Rosewater, to which they put a few grains of Sal-Armoniack. The manner is thus:

Take of the Salt of Lead twelve grains; Sal-Armoniack three grains; Rosewater three ounces. Mix them, and drop some into the Eye Morning and Evening.

There is also a Water made of calcined or burnt Lead or Litharge, or Menium infused in Vinegar, which laid to the Eye with a Linen-clout, presently cureth their Inflammation.

The Water of white Vitriol is most common, being dissolved in Rose and Plantane-water; this mitigateth Inflammations, discuteth and hindreth defluxions. Thus they are proportioned.

Take of white Vitriol one scruple; Rose or Plantane-water four ounces: Dissolve the Vitriol in it at the fire: strain the water and drop it into the Eyes. If it be too sharp, you may qualifie it as you please with more Rose or Plantane-water.

This following Medicine is not so sharp, and more dissolving:

Take of Flowerdeluce-Roots and red Roses, of each one scruple; Rose and Plantane-water,

of each three ounces : Boyl them to the third part with a gentle fire. Add to the straining white Vitriol powdered eight grains. Make a Collyrium.

Many Oyntments also are used for the Eyes, of which these three following are the best, and sometimes do wonders. The first is in *Renodius* his Dispensatory, called *Unguentum Ophthalmicum*, made thus;

Take of Bole-Armenick washed in Rosewater one ounce; Lapis Calaminaris washed in Eye-bright-water, and Tutty prepared, of each two drams; Pearl finely powdered half a dram; Camphire half a scruple; Opium five grains; Butter as much as will be sufficient to make an Oyntment according to Art, for to be applied to the corners of the Eyes and Eye-lids.

The second is *John Crato's*, which is set down in his Physical Counsels gathered by *Lawrence Scholzius*, Conf. 6. thus :

Take Butter made in May, if you can get it, or other that is fresh and well worked, or the Marrow of an Ox or Deers Shark, and mix therewith as much of the fine Powder of Lapis Calaminaris as it will receive; make an Oyntment.

The third is from *Panotus in denario*, thus made;

Take of Tutty prepared one ounce and a half : Camphire one dram : Verdegreece twelve grains. Beat the Tutty with the Camphire together in a Mortar, the Verdegreece by it self, all very fine : Then take of fresh Butter one ounce : Rosewater one dram : boyl them gently together, and then take them from the fire, and first put in your Camphire with your Tutty, then your Verdegreece by degrees : stir them very well, and reserve them in a Glass. Make an Oyntment and strain it through a Sarsenet : Anoint the in-side of the Eye-lids, especially about the corners, and the Patient will soon recover. This is a most approved Medicine against Inflammations both with matter and dry, against the itching of the Eyelids, and weeping.

There is another very good, though sharp, and therefore must be onely applied to the Eyelids; it is thus made : (and when all have failed, this hath cured the most desperate Ophthalmy) namely, Of May-butter and juyce of Tobacco boyled to an Oyntment, which must be applied to the Eye-lids being closed and in a dark Room : as soon as the Patient opens his Eyes, it will begin to bite, and will certainly cure.

In the height of the Disease, you must apply more Resolving than Repelling Medicines, therefore they which were prescribed in the increase of it are good in the height or state of it, if you increase the quantity of the Resolvers, and diminish the Repellers. But especially these two following Oyntments may be used not only in the state and height, but in the declination, to the perfect Cure of the Disease.

First, Fomentations to disperse the matter are good in the height of the Disease, made thus ;

Take of the Flowers of Camomel, Melilot and Roses, of each one Pugil : Fenugreek seeds prepared as before shewed, two drams. Make a Decoction, with which foment the Eyes with four double cloths. This is good in the end of the increase, and the beginning of the state of the Disease; and in Winter you must use it hot, in Summer onely warm.

In the end of the state and declination, you must make a more resolving Fomentation, which is done by adding to the former Ingredients, the leaves of Eyebright, Marjerom, Betony and a little White-wine.

The best and rarest Secret for the Cure of an Ophthalmy, is made of the Oyl which cometh from Linen burnt between two close Dishes; one drop of which mixed with the Spittle of a Child must be dropped into the Eye with a Feather.

In the declination, not onely the Remedies aforementioned, but also Waters more Resolving are to be used, as thus ;

Take of Frankincense and Aloes, of each half half a dram : Sarcocol washed with Breast-milk one dram and an half : Saffron half a scruple : the Mucilage of Fenugreek half an ounce : Fennel and Eye-bright-water, of each one ounce and an half. Make a Collyrium.

But if you will dry more, and also digest,

Take of Sarcocol one dram and an half : Tutty prepared one dram : Aloes one scruple : Myrrh half a scruple : the Mucilage of Fenugreek half an ounce : Vervain and Celandine water, of each one ounce. Make a Collyrium.

In a Defluxion which comes of Flegm you may use strong Resolvers, not onely in the declination, but also in the state and increase of the Disease very confidently.

Moreover, in the declination Authors do set down two special Remedies, namely, the use of Wine and Baths, which first were delivered by *Hippocrates* Aph. 3. Sect. 6. in these words, Drinking of Wine or Baths, or a Fomentation, or blood-letting, or a Potion, do take away pains in the Eyes.

Galen in his Commentary thereon, distinguisheth the Case and the Time in which these Remedies are good, which we have explained as to Blood-letting, Fomentations, and Purging : But *Galen* in

in the place, cited, *Cap. 22. lib. 13. Meth.* teacheth, that Baths are then good when an Ophthalmy comes of sharp Humors, and when the Body is sufficiently cleansed by purging and bleeding; because they qualifie the sharpness of humors, and stays their motion and defluxion: the chiefeft part of them being sent forth by insensible transpiration, and that which remaineth of the cholerick humor is easilier overcome by Nature.

Galen also commends a Bath in a Flegmatick Ophthalmy, always using before Evacuations necessary, because the thick Humors fastned in the Eyes are extenuated by Baths, and so are easily dissolved.

So *Galen* in the same place saith, That the drinking of pure Wine is good for those who have thick blood in the Veins of their Eyes, and have not gross or Flegmatick bodys; because Wine doth dissolve, diffuse and discuss the thick blood, and also openeth Obstructions.

For the taking away of the remainder of Redness and Inflammation, make this Fomentation following:

Take of the Leaves of Eyebright and Pennyroyal, of each one handful; the Flowers of Camomel, Melilot and red Roses, and of Jaten Chaff, of each one Puzil; Fenugreek seed three drams; Fennel-seed one dram: make a Decoction adding in the end a little White wine, foment the Eye with this, dipping therein linen-cloaths, or with Bags being half filled with the aforesaid Ingredients.

Fennel-water alone mixed with astringent Wine is a good Fomentation to discuss the reliques, and strengthen the Eyes.

An Egg boyled hard, and the shell taken off and cut in the middle, laid hot to the Eye, takes away the remainder of redness.

So doth a Fomentation made only of the Decoction of Hyssop.

An old Ophthalmy requires another and longer way of Cure, and is sometimes very troublesome to a Physician; because he can hardly hinder a delicate and noble part from receiving a Defluxion by which it hath been long weakned.

Moreover, this Disease is not only nourished by Defluxion, but by Congestion, whereby there is distemper brought into the part, which also is hard to cure.

But for the Cure of it you must first observe whether the Disease come not from a hot distemper of the Liver, as often it doth; and then you must first administer such things as amend that. And chiefly after convenient purging and bleeding, Baths are good, Whey, and Mineral Waters of Vitriol, as also Horseleeches applied to the Hemorrhoids.

But if the matter of the Disease come onely from the Distemper of the Brain through which watry Humors flow to the Eyes being mixed with some blood: then you must fall to purging the Head with ordinary Pills, twice, thrice or four times in a Month, after you have given Universal Medicines, as Apozemes or the like, which you may make according to our description in the cure of the cold Diseases of the Head.

If the aforesaid Purges with other Medicines now described do not prevail, you must use Mercurial Purges as the most excellent by way of Intermission.

Moreover, A Cautery applied to the hinder part of the head is very profitable to divert the Humor flowing.

Instead whereof you may apply a Seton to the Neck behind, with better success to them who can indure it.

A Veleatory applied to the fore part of the Head, as *Forestus* reports, *Obs. 11. lib. 11.* did a wonderful Cure upon an Old Woman with sore Eyes.

But *Rondolettus* saies, That a Cautery applied to the Coronal Suture, is better than to any other part.

Masticatories are profitable for the deriving of the Defluxion, but not Errhines, because they are applied to near the part affected that they may draw humors to it.

But if the Brain doth seem to want drying, you must have recourse to your sweating Diet-drink of China Sarsa, and the like.

To these you may add Topicks which resolve and strengthen the Eyes, such as are Fomentations and Unguents before-mentioned for the state and declination of the Disease, which also are excellent for old Ophthalmies; nor must you forget the washing of the Eyes as above mentioned with Fennel-water and red Wine, to take away the remainder of the redness, and to strengthen the Eyes every Morning.

For which purpose also,

Take of the best Aloes, and of Turky prepared, of each six drams; white Sugar one ounce; Rosewater and mild White-wine, of each six ounces; set them in the Sun forty days in a Glass well stoppt: put some drops of this Water not strained into the Eyes. Or,

Take of White-wine three Pints, Rosewater half a Pint, Turky prepared three drams; Powdered

dred Cloves one dram; Camphire half a dram; mix them in a Glass close stopr, and shake them for two hours, and set in the Sun one whole moneth, remembring every day a little before Sunsetting to take it out of the Air, and never bring it forth till the Sun is risen. Two or three drops of this Water strained by filtration must be put into the Eye before he go to sleep, or in the morning one or two hours before he rise.

This takes away the oldest redness, it dries up weeping and Fistula's, it consumes all superfluous moistures upon the outward Membranes, and quickens the sight. This also following is excellent.

Take of Wheat two handfuls; Powdred Salt one handful; put them in a Copper-vessel, and put White-wine to them two fingers breadth above them; cover the Vessel, and let them stand in the shade six or seven dayes till the Liquor turneth green, stirring them often with a wooden Spatula, after pour off the Liquor by inclination without the dregs, and if need be filter it. One drop into the Eye, takes away redness and Defluxion, and all spots or plemishes thereon, and quickneth the sight.

Solenander commends highly the Decoction of Quince-leaves, which are to be gathered without breaking in the beginning of the Spring, and kept diligently that they be neither dusty nor musty, nor otherwise defiled; and when you use them, boyl one handful of them in pure water, and let the Eyes be often washed therewith: It is a wonder (saith he) to see how it doth preserve, cleanse and stops Rheums in the Eyes.

Sometimes in an inveterate Ophthalmy much filth-like matter is gathered in the Eyes which can scarcely be cured with Collyriums or other Remedies: but in this case fine Cotten dried at the fire and laid like a small Pillow upon the Eye and rowled down, is very good; for the next morning you may take much filth away with it. And with this Remedy used many Nights together many Eyes have been cured which could not otherwise; and this kind of Medicine prevails chiefly among Children that have sore Eyes.

For a Conclusion of this Chapter, it will not be amiss to set down the Experimental Medicines of *Zacutus Lusitanus*, who cured an Old Ophthalmy which would no otherwise be removed in a whole year with a Mercurial Unguent, although there was no sign of the French-Pox: being perswaded by *Mercurialis*, who in his Book of the French-Pox saith, *When you see any Disease that will not be cured by ordinary means, imagine it to be the French-Pox.* He asked the Patient if ever he had the French Disease, or ever lay with a foul bodied Woman? He denied all, but only confessed that he lay with one Man once in the Bed, whom he suspected to be Frenchified: Upon this Conjecture, the Physician prescribed a Sudorifick Diet of Sarsa for twenty days, but to no end. And though the Disease was chiefly in the upper parts, so that it was to be feared lest if he Fluxed him at the mouth with Mercury, that the humors should fall more into the Eyes; but in regard it was old, and the force of the Defluxion was attained, he prescribed the Unguent of Mercury after his Body was well purged, and by it in seven days space after plentiful salivation or spitting, his pains ceased, that Inflammation was gone, the itching abated which was before in his Eye lids, with much Acrimony. And so leaving him only an Issue in his Arm to breath the Brain, and prescribing a good Diet, which he kept, the Patient returned to his former health.

The same *Zacutus Lusitanus* in his *Praxis ad Hist.* commends that Water and Oyntment which we mentioned in the Cure of a Suffusion for an old Ophthalmy.

CHAP. IX.

Of Hypopyo, or Matter under the Cornea.

WHen the Inflammation of the Eyes are great and swelling sometimes they cannot be resolved, but they will be suppurated; which is much to be feared, and to be prevented by all means, for from them Ulcers will come, and sometimes Matter is gathered under the Cornea, which Disease is called *Upopuon*, and this comes often from a stroke, or contusion and blood-shotness; sometimes it covereth all the Pupilla, and hinders the sight; sometimes it compasseth the Circle of the *Iris*, and is like the paring of a Nail, and thence it is called *Onux* or *Unguis*.

DIAGNOSTICK. This Disease is known not onely by the whiteness which is like Matter, but also from the Inflammation and blood-shot that went before; for when the Eye is moved, there appears a motion of Pus or Matter under the Cornea. There is a redness in the Eye, and Pulsation, or at least went before it.

CURE. For the Cure, first using Universal Medicines, if there remain any reliques of Inflammation, you must take them away by the Remedies prescribed in the Ophthalmy: then you must apply gently Discussients mixed with Emollients, lest when the thin part is resolved, the Matter become thicker,

thicker, and less fit to be dissolved. Therefore make your Fomentations of the Decoction of the flowers of Camomel, Melilot, the Seeds of Fleabane and Fenugreek; to be used with linen or bags. You may add the Leaves of Eye-bright, Celandine and Fennel seed. Or use this following Collyrium.

Take of the water of Vervain, Rue, Celandine, Roses and Fennel, of each half an ounce; the best Aloes and Tutty prepared, of each half a dram; Sugar-Candy one dram. Powder and mix them; with a little Breast-milk make a Collyrium, of which drop some into the Eyes twice or thrice in the day.

This following is excellent;

Take of Saffron, Aloes and Myrrh, of each one dram; Wine three drams; Honey six drams. Dissolve the Saffron in the Wine; then mix them with the Aloes and Myrrh, then put them to the Honey and anoint the Eyes.

Lastly, Those Medicines which were prescribed in the declination of an Ophthalmy, in the spots or *Macula* of the Eyes, and in Suffusion or Cataract, are good here.

If the Matter cannot be dissolved with Resolving Medicines, you must seek others. *Gal.* in 14. *Meth.* reports, That there was one *Justus* an Oculist in his time, that cured many of this Disease by shaking their heads; for setting them straight upon a Seat, and taking hold on both sides of their head, he shook them till he perceived the matter to descend.

But if the matter which hindreth the sight cannot be thus cured neither, *Galen* in the place cited flies to Manual Operation or Chirurgery, whom *Aetius* and others do follow, which is done by pricking of the Eye, which is used also in a Cataract. Which Operation as it is little used in our times, so it requireth the hand of a most Skilful Chirurgeon; and it is much to be feared, lest when the *Cornea* is opened, the watry humor come forth with the Matter.

CHAP. X.

Of Phlyctenæ, or Blisters in the Eyes.

IN the *Cornea* and the *Adnata Tunica*, as in the parts of the Body, there breed sometimes little Blisters full with water, like bubbles or bladders, which come from the heat of the Humor *Phlyctainai* in Greek, and called in *Arabick* *Bothor*; and they are little Tumors like Gromwel-seeds, coming from a sharp watry Humor.

DIAGNOSTICK. They are easily known. They in the *Adnata* are red: in the *Cornea* blackish, if they be outward; but white if they be in the inner-part of it.

PROGNOSTICK. As to the Prognostick; *Phlyctenæ* which grow in the *Adnata*, are less dangerous than they in the *Cornea*. The more superficial these Pustles are, the less dangerous they are; the more inward, the more danger; for it is to be feared lest the whole thickness of the *Cornea* be eroded, and so either the watry humor will flow forth, or else the *Uvea* will start out.

CURE. The Cure consisteth wholly in the resolving of the matter conjoyned, and the averting of the Antecedent Cause. And we must take heed lest we bring these Pustles to suppuration, lest they turn into Ulcers.

Therefore those universal Evacuations, Revulsions and derivations, which were declared in the Cure of the Ophthalmy, must here be used.

Afterwards, we must apply Topicks or Medicines to the part, which at the first must gently repel and discuss; such as were laid down for them in the Treaty of the increase of Ophthalmy, which are most proper when there is an Inflammation also, as it often falleth out.

Afterwards you may use more drying and dissolving Medicines, such as are described for the state and declination of Ophthalmy, and especially the Oyntments there set down, which are very proper to discuss and dry up Pustles.

CHAP. XI.

Of the Ulcers in the Cornea and Adnata.

AFTER an Ophthalmy there followeth often Ulcers in the Tunics called *Cornea* and *Adnata*, when it comes to Suppuration. They follow also the *Phlyctenæ* or Pustles, which breed in the *Cornea*, but not till they break. They also use to come from sharp corroding Humors flowing in to the Eyes.

There are divers sorts of these Ulcers mentioned in Authors, taken from their divers circumstances, as they are superficial or profound, broad or narrow, and according as they differ in shape and figure, and the like. So a hollow narrow and hard Ulcer is called *Bothrion*, or *Fossula* like a little Trench,

Trench : A broad and not so deep an Ulcer, is called *Coil-oma*. That which cometh in the Circle *Iris*, is called *Argemon*, or *Ulcus Cornale*. Finally, that which is deep and hard, is called *Epicaymia*, and *Encaymia*.

DIAG. The knowledge of Ulcers is easie, for they may be seen: If the Ulcer be in the *Cornea*, there will be a small white blemish in the black of the Eye; If in the *Adnata* there will be a small white blemish in the white of the Eye, because the Veins of the Tunicle *Adnata* are full of blood.

PROG. The Ulcers of the Eyes are dangerous and hard to be cured; but more in the *Cornea* than in the *Adnata*. An Ulcer in the Pupilla is more dangerous, because after it is cured, it will leave a Scar, which will hinder the perspicuity of the *Cornea*, and so the sight will be hurt; and if the whole Tunicle be corroded, the watry Humor will flow out, and the *Uvea* start forth.

CURE. The Cure of this Disease, as of other Ulcers, is by cleansing and drying means, but they must be very gentle by reason of the tenderness of the part, and exquisiteness of the Sense. But you must first use such things as reveal and hinder the Flux of Humors from the Eyes: as in Ophthalmia either old or new, were declared. And if there be an Inflammation with it, you must mix things that are proper for that. With which also you may use things that assuage pain, if there be any.

These things do moderately dry and cleanse: Sugar, Honey, Saffron, Myrrh, Frankincense, Aloes, Sarcocol, Tutty and Cerus; of which you may make these following Medicines:

Take of Barley and Fenugreek water boyled four ounces; the best Honey half an ounce, or of the syrup of dried Roses one ounce. Make a Collyrium to wash the Eyes often.

Take of Vervain and Plantane-water, of each two ounces; Sugar-Candy half an ounce. Mix them for a Collyrium.

Take of the Water of Honey distilled in Balneo, and of Rosewater, of each equal parts. Or,

Take a hard Egg peel'd, cut it in two pieces, and taking out the Yelk, fill the hollow with the Powder of Sugar-Candy; tie it fast, and hang it in a Wine Celler, and you shall have a Water drop from it, which is excellent to cleanse the Eyes without pain.

But if you will have a stronger, mix the Powder of Myrrh with your Sugar-Candy.

Montanus highly commends this Powder following:

Take twenty Whites of new-laid Eggs, put them in a Pewter-dish in the Sun till they are dry; then powder them finely with as much Sugar: and this Powder put into the Eyes doth much good without causing pain.

In the Progress of this Disease, if you will cleanse and dry more, put to the former Medicines the White Troches of *Rhasis*, Frankincense, Aloes, Myrrh, Sarcocol, or the like, but in a small quantity lest it be too sharp, and also mix them with Milk, White of an Egg, some Mucilages, and other Anodynes, or things that mitigate and assuage pain.

Tutty is the best, for it causeth no pain, and dryeth and healeth; therefore Collyriums or Unguents are good that are made thereof; And chiefly the Oyntment prescribed in the Cure of Ophthalmia, which hath in it a great quantity of Tutty.

This following is very cleansing, drying and healing.

Take of Sarcocol steep'd in Rosewater, Cerus and washed Aloes, Myrrh and Tutty prepared, of each half a dram; Sugar-Candy one dram: With the Mucilage of Gum-*Tragacanth* drawn with Rosewater make a Collyrium, with which anoint the Eyelids.

Chap. 12. Of a Cancer in the Cornea.

AS a Cancer may come in other parts, so sometimes it breeds in the Eyes. And though the knowledge and cure of a Cancer is in the Treatise of external Diseases, yet we will speak briefly here of those things which properly belong to a Cancer in the Eye.

A Cancer is either occult, or hidden or ulcerated. The occult is reckoned among Tumors, and it is called a Cancerous Tumor, or a Cancer of the Eye: But the ulcerated is called a Cancerous Ulcer in the Eye.

But in both there is an unequal hardness, a blew Lead-colour, a strong pricking pain, especially about the Head and Temples; the Veins adjoining are blew and very full. Sometimes adust and sharp blood floweth from the part affected, when the Cancer is ulcerated. And this pain is increased by any warm Medicines.

The Disease is incurable as well in the Eye as in any other part when it is fixed: except it be taken away by manual Operation.

CURE. Authors propound two ways of Cure, namely, a True and a Palliative. A true Cure (as was said) cannot be wrought but by Chirurgery when the Cancer is fixed: but when it is new in the beginning, it may be cured by often Evacuation of the Cholerick Humor, first having let blood, as Galen teacheth, 2. ad Glauconem cap. 10. where he boasteth that he hath often cured this Disease, with taking a convenient Diet with the aforesaid Physick.

A Pal-

A Palliative Cure which tends onely to the mitigation of Symptomes, is done not only by the aforesaid Evacuations, but also by convenient Topicks.

First, then you must appoint a convenient Diet, such as is good against burnt Choler; and it must be cooling and moistning.

Then draw blood on the same side, and apply Horsfleeches behind the Ears, and also to the Hemorrhoids if they do appear, applying Cupping-Glasses to the Shoulders, and use other kinds of Revulsions.

You must also prepare and purge Melancholy by Potions, Apozemes, opening Broaths, by Magistral Syrups and the like. But above all, for the purging of Melancholy, black Hellebore well prepared is the best; and by giving the Extract thereof twice or thrice, we have sometimes cured a Cancer in the beginning.

These Remedies do exceedingly diminish the Humors that flow to the Eyes, and take away pains and other symptomes; for which purpose also Topicks are good, such as are prescribed in Ophthalmomy for asswaging of pain, especially the *Collyria* made of Mucilages, the white Troches of Rhafis, and prepared Tutty, with the Water of Roses, Nightshade and Plantane.

This following Water is a good Collyrium to wash the Eyes with:

Take of the Roots of Pilewort and Herb Robert, of each two handfals; Ribwort, Nightshade, Borrage, Bugloss, Purslane, Eyebright and Betony, of each one handful; green Frogs, and Whites of Eggs, of each twelve in number; the seeds of Fenugreek and Quinces, of each one ounce; let the Roots and Seeds be bruised, and the Leaves cut: then pour upon them of Eyebright and Rosewater, of each one pint: mix them and distill them in a Pewter-Still.

The Flesh of Chickens is very powerful to assuage pain; and some say that the Disease it self hath been cured by it alone. So *Maritius Cordens*, Comment 7. in lib. 1. *Hip.* of Womens Diseases, relates a History of a Noble-Woman, who had the right side of her Face a long time infected with a Cancer ulcerated, and having tried all means she could from Italian, French, German and Spanish Physicians, was at length cured with this vulgar Medicine by a Barber: He took Chickens and cut them in thin broad pieces, which he often applied to the Cancer. Others apply the flesh of young Pigeons so cut while it is warm.

Finally, The true Cure of a fixed Cancer is onely by taking it out by the Roots, and is by a taking out of the Eye; which *Fabricius Hildanus* saith may be done very safely, and he sheweth the manner and circumstances thereof at large, *Observ. 1. Cent. 1.* so that we shall not here repeat them.

CHAP. XIII.

Of the Rupture of the Cornea.

Sometimes the *Cornea* Tunicle is so divided, that the watry Humor, and sometimes the *Uvea* also cometh forth, and this is called the Rupture of the *Cornea*.

CAUSES. The Cause of this is an Ulcer, or a Wound in the Membrane or a great afflux of Humors, by which the said Membrane is so distended, that it cracks the middle and the humors contained are let out: As *Paræus* reports it happened to a certain Woman in *Paris*, lib. 16. cap. 13.

PROGNOSTICK. This Disease is for the most part incurable, and takes away sight, because the Humors of the Eye cast forth cannot be repaired; but if the Wound be small, so that only a portion of the watry humor is only lost, it may be cured; for the watry humor may sometimes be renewed, as *Galen* taught, 4. de sympt. caus. cap. 2.

CURE You must use astringent and glutinating Medicines, having first bled and purged, if necessary, as the White of an Egg, with the white Troches of Rhafis dropt into the Eye.

Let the part be fomented with a Decoction of red Roses, of Solomons Seal, Bramble-buds, Shepherds-purse, and Plantane boyled in red Wine if there be no Inflammation; but if there be, in Spring-water.

Take of Quinces half a pound; red Roses three Pugills; Acacia two drams, Saffron one scruple. Boyl these in red Wine, and make a Cataplasme to be applied to the part.

For the perfect Consolidation and Cure, use this Collyrium;

Take of washed Aloes, Tutty prepared, and Sarcocol steeped in Breast-milk, of each half a scruple; Saffron five grains; with the Mucilage of Gum-Tragacanth make a Collyrium.

Chap. 14. Of the coming forth of the Uvea.

Differences **U**Pon the Rupture of the *Cornea*, often comes the shooting forth of the *Uvea*, which is called in *Greek*, *Proptosis Ragoidous*. There are four kinds mentioned by Authors, especially by *Paulus*, of which the first is called *Mucocephalon*, because it is like the head of a Fly, and this is when a small portion of the *Uvea* comes forth. The second is called *Staphyloma*, and this is when a great part of the *Uvea* comes forth, so that it is like the stone of a Raisin. The third is called *Melos*, when there is so great eruption of the *Uvea* that it seems like an Apple. The fourth is called *Elos* or *Clavus*, when the *Uvea* being come forth groweth hard.

PROGNOSTICK. The cure of this Disease is difficult, and the more when the *Uvea* comes most forth; but when it is small, as in *Mucocephalon*, it is curable by moderate Astringents, such as we prescribed in the Rupture of the *Cornea*.

CURE. The Ancients, as *Paulus Aetius* and *Celsus*, do labour to cure them when old and not moveable by Medicines with Chirurgery; but this is now out of fashion, by reason of its great difficulty and doubtful success: but if any will try it, he shall find the way exactly set down in *Jerom. Fabricius ab Aquapendente, cap. de staphylomate*.

CHAP. XV.

Of Ægylops, and Fistula Lacrymalis.

Hitherto we have spoken of the Diseases of the Eyes which happen in the Humors and upon the Tunics; it remaineth that we speak of the Diseases of the Corners of the Eyes and Eyelids.

And first of the Tumor in the great Corner of the Eye, by the root of the Nose called *Ægylops*, and *Anchylops*, if not broken.

This little Tumor is either with or without Inflammation.

CAUSE. When it is inflamed it is like a small Phlegmon or Bile, red about, with a shooting pain. And it comes of thin and cholerick blood that flows into the part by the Veins of the Temples, Forehead and Face, and so impostumateth; which being often, produceth an Ulcer, which speedily turns hollow, and then it is called *Fistula Lacrymalis*. And if this continueth one year, there is a Caries or foulness of the Bone, as *Hippocrates* saith, 45. Sect. 6. In Ulcers of a year old the Bone is foul. And this Caries is known by the Cavity which is known by the finger and by the stinking matter flowing from it.

Sometimes it comes without Inflammation, and then it is bred of a thick slimy humor, like Pulse or Honey: As the Tumors called *Atheromata*, *Stertomata*, *Meliceris*, which are without pain.

PROGNOSTICK. The Cure of an *Ægylops* is very hard, both in regard Medicines are ill to be applied to it by reason the sight is so nigh, and because an Imposthume will quickly ulcerate in such a tender part as aforesaid; but it is most difficult when the Imposthume breaks out at the Nose, and the Matter flows through the Nostril, because thereby the Bones will be putrified.

Sometimes the *Ægylops* turns to a Cancer, which comes with a pricking pain, extension of the Veins, hardness and blewness of the Skin, and then it is better to let it alone, because Medicines will enlarge it and increase pain.

A *Lachrymal Fistula* that is newly begun, and which hath an external Orifice to be seen, is curable by Medicines; but that which is deep and old, and hath fouled the Bone, is scarcely cured without burning.

CURE. The divers times of these Diseases require divers Medicines.

And first in the beginning of an *Ægylops* you must revel the defluxion from the part by bleeding and purging, and use repelling Medicines to the Forehead, by which sometimes the Progress is stopt before it come to Suppuration.

For this end use the following *Ceratum*;

Take of Pomegranate-peels. *Acacia*, Pomegranate-flowers, Galls, Cypress-Nuts, *Roch-Allum*, *Bole-armeniack*, of each one dram; white Wax four ounces; Turpentine three drams. Make a *Cerate*.

After the use of Repercussives, you must apply Resolvers to the part affected, as this decoction:

Take of pure Honey and Aloes, of each two ounces; Myrrh one ounce; Saffron one dram
P and

and an half; Water two Pints. Boyl them gently to the consumption of half: dip a piece of soft Sponge therein, squeeze it a little, and apply it hot to the part, bind it on, and do thus often.

Amatus Lusitanus, *Curatone* 68. Cent. 5. prescribes a Cerate against *Egylops*, which he highly commends, which is this:

Take of the Powder of Cockleshells two drams; Myrrh, washed Aloes and Frankincense, of each half an ounce; Sarcocol, Dragons-bloud and Cerus, of each three drams; *Opopanax* dissolved in Wine, Vinegar and bloud-Stone, of each one dram and an half; Saffron two scruples; Wax and Rozin, of each three ounces. Mix them according to Art at the fire, and make a Cerate to be applied to the corner of the Eye.

If the Tumor will not be resolved with the former Medicines, but will come to Suppuration, you must help it forward with a Plaister of simple Diachylon; or if there be pain or inflammation, you may apply a Cataplasim of Crums of Bread. If it will not break, open it with a Lancet, and delay not lest the matter contained do corrode the parts and make an incurable Fistula. Many open it with a hot Iron, but the cold is best.

After the Imposthume is opened, you must cleanse the Ulcer, and heal it as others. But if the Fistula, cure it thus:

First make a general Evacuation by bleeding and purging. You must divert the defluxion from the Head by Cupping-Glasses, Velicatories and Causticks applied to their peoper places, and then use the decoction of China or Sarsaperilla for many days. And at the same time dry the Brain with Fumes and Head-powders, as in a Catarrh.

Instead of a Cautery you may apply a Seton to the Neck: For *Fabricius Hildanus* reports *Obs.* 41. Cent. 1. that it hath done it alone without other means.

If the distemper of the Liver be the cause of the defluxion (as it often is) you must have a special care to administer Medicines proper for that.

When you use Topicks, open the Orifice of the Ulcer, and dilate it by degrees with a Tent made of an Elder-pith, a Sponge made fit, or a Gentian Root. When it is large enough, apply this following Medicine commended by *Forestus*, *Obs.* 17. *Lib.* 11.

Take of Honey two ounces: Verdegreece one dram: Water of Rue four ounces. Powder the Verdegreece very fine and boyl it with the rest at a gentle fire till the third part be consumed, and make a warm Injection of the Strained Liquor with a Syringe: if this be too sharp, wash the Ulcer every day with the Water of Rue, and after apply a little Unguentum Apostolorum. Continue this course for three weeks, laying on some convenient Plaister, and defending the Eye with Rosewater.

When the Ulcer is sufficiently purged, use this following Collyrium to incarnate and cicatrize:

Take of Frankincense, Aloes, Dragons-bloud, Pomegranate-flowers, Allum and Antimony, of each one dram; Verdegreece five grains. Powder them fine, and with Rue-water make a Collyrium to be dropt in with a stalk of Rue thrice in a day, and put in a Tent wet therewith, laying upon it a Diapalma Plaister. Lessen your Tent by degrees, and at length take it quite out, onely washing the part with the aforesaid Collyrium, and laying on Diapalma.

Forestus in the place cited, saith, That new Fistula's have been cured thus by a famous Chirurgeon of his time.

If it appear that the Bone be foul, it must only be cured by an actual Cautery; the manner of which is exactly described in *Parvus*, *Fallopins*, and *Aquapendente* in their Works: But *Fabricius Hildanus*, *Obs.* 22. Cent. 5. boasteth that he cured a Fistula Lachrymalis with foulness at the Bone, that was four years old and counted desperate, in a Child of thirteen years of age, with Medicines alone dilating of it with prepared Sponges, and after sprinkling Euphorbium into it, and that very much and often, and after applying onely an Emplaister of Gum Elemi. Having used these things diligently for the space of divers Weeks, he perceived a scale of the bone, which he drew forth; and then with half a drop of Tolutan balsom upon a little Lint once in a day conveyed into the Ulcer, he perfectly consolidated the Fistula in a short time.

Chap. 16. Of Rhyas and Encanthis.

ANother disease often followeth the Fistula Lachrymalis called *Rhyas*; and this is the consuming or diminishing of the small flesh in the great corner of the Eye, from whence it is enlarged: This comes also of other Causes, as sharp Humors falling upon the part, or from cleansing Medicines formerly misapplied.

Encanthis is contrary to *Rhyas*, which is the immoderate increase and swelling of the Caruncle, or

or little flesh in the great corner of the Eye, and this comes from much blood flowing to the part, and the not orderly curing and drying up of the Ulcer.

The Cure of *Rhyas* is by Incarnatives, such as follow:

Take of red Roses one Pugil; Cypress-Nuts and Myrtles, of each two drams; Aloes one dram and an hal; old Wine one Pint. Boyl them till the fourth part be consumed; wash the part often with this Decoction. Or,

Take of Aloes and Frankincense, of each one dram; Dragons-bloud half a dram; red Roses and seeds of Sumach, of each one scruple; Rosewater one pint, Boyl them to the consumption of the fourth part. Make a Collyrium.

Encanthis is cured by taking away of the superfluous flesh growing in the corner of the Eye; this is done with eating Medicines, beginning with the mildest first; therefore first use burnt Allum, after proceed to *Unguentum Apostolorum*, *Egyptiacum*, or burnt Vitriol: But if these will not do, cut it out, or burn it with an Iron. But before you do these things, you must prepare the Body with convenient Evacuations, lest you cause a new Defluxion; but in the cutting, burning or consuming of this Carbuncle with Medicines, you must take heed that you take it not wholly away, but onely that which is superfluous, otherwise it will turn to *Rhyas*.

Chap. 17. Of Epiphora.

THe word *Epiphora* signifieth any Defluxion into any part: But through custom it is used especially for the Defluxion of a thin Rheum from the Eyes; hence it is called involuntary weeping which flows daily from the corners of the Eyes.

CAUSES. For the producing of which Humor flowing preternaturally, there is an evil disposition in the part from whence it cometh, and in the part receiving it: the part that sends this Humor is the Brain, which when it is too hot or too cold, gathereth a watry humor, and so sends it to the inferiour parts, which are fit to receive it; the part receiving is the Glandule or Kernel by the great corner of the Eye, and the Caruncle upon the corner; the thinness or thickness, or other weakness of which parts causeth that they easily entertain the humors that flow thither. Therefore an *Epiphora* happeneth often in an *Ægylops*, a Lacrymal Fistula, a *Rhyas* and *Encanthis*, because the superfluous humors use to be easily received into the parts affected.

This humor is carried from the Brain into the Corners of the Eyes, sometimes by the internal Veins, sometimes by the External, as we shall shew hereafter by their proper signs.

But the Humor which maketh an *Epiphora*, is sometimes cold, and brings no other inconvenience but only Defluxion: sometimes it is salt and sharp, and causeth pain, heat and redness, and exulceration of the Eye-brows.

SIGNS. There need no sign to be given of tears they are visible: It will appear by what hath been said, whether they are cold, or hot and sharp: but we must distinguish whether they come by Internal or External Vessels: When by the Internal, there is pain in the inside of the Head, and sometime violent Needing. But if they come by the External without the Skull, the Vessels of the Forehead and Temples are stretched, and the Head seems to be bound about, and astringent means outwardly applied to help.

PROGNOSTICK. New *Epiphora's* coming from outward Causes are easily cured, especially in youth: but old, and in old men very hardly. They which proceed from other Diseases, as *Ægylops*, Fistula Lachrymalis and the like, have their cure with the Diseases whence they came.

CURE. The Cure of this Disease consists in taking away the Defluxion, and strengthening the part receiving.

You must take away the Defluxion with Evacuation of the Humor offending, Revulsion, Derivation, and strengthening the part from whence it cometh.

The Peccant Humor which is a Water superfluous in the Brain, must be evacuated with bleeding and purging.

Bloud-letting is not good in a cold distemper of the Brain, except there be manifest signs of Plethory or foulness: but in a hot distemper when the Humors are very sharp, is very good, and you may use it twice or thrice if need be.

You may purge by Potions, Apozemes, Pills and the like, which you may proportion to the condition of the Patient.

Make a Revulsion of the Humors flowing by Cupping-Glasses often applied to the Shoulders by Vesicatories to raise Blisters behind the Neck, or with Cauteries to the hinder-part of the Head, and Issues in the Arms.

In a stubborn *Epiphora*, a Vesicatory applied to the fore-part of the Head doth wonders, as *Forrestus* sheweth, *Obs. 11. lib. 11.* concerning an old Woman who had sore Eyes weeping and matter,

tery, with great pain and itching, and could by no means be cured, that with applying a Plaister of *Cantharides* with Honey and Leven to her Head, being shaven, he perfectly cured her.

Rondeletius saith, That a Cautery applied to the *Commissura*, doth more good than when it is used to any other part.

For Derivation, use Leeches behind the Ears, and Masticatories every morning.

But lest the Humors once evacuated should breed again, the Brain must be strengthened and dried, and if it be too cold, you may use all our Remedies prescribed in the Cure of the cold Distemper of the Brain. But if it be too hot, those things which we prescribed in the Cure of a hot Catarrh, especially such as respect the Brain most, are here to be used.

While the former Medicines are used, you must apply Topicks to the part receiving: And first, if the Humor comes through the external Veins; apply Astringents to the Forehead and Temples: and if the defluxion come from a sharp hot humor, use the following Cataplasim:

Take *Bole-armeniack*, *Dragons-bloud*, *Pomegranate flowers* and *Mirtles*, of each one dram and an half: *Acacia* and *Hypocistis*, of each one dram: *Frankincense* and *Mastick*, of each two scruples: red *Roses* one Pugil; Powder them and mix them with the white of an Egg and a little Vinegar; make a Cataplasim: which spread upon a cloth and apply to the Forehead and Temples, and renew it as fast as it groweth dry.

If it come of a cold humor, apply this following Cerate:

Take of *Frankincense* and *Mastick*, of each one dram and an half; *Gum Anime*, *Tacamahaca* and *Bloud-stone*, of each one dram; *Gum of Juniper* two scruples; *Turpentine* and *Wax* as much as will serve to turn; Make a Cerate.

But you must apply Astringent and drying Medicines to the part affected; which are thus made:

Take of *Tutty* prepared one dram; *Sarcocol* half a dram; *Frankincense* and *Mastick*, of each a scruple; *Spicknard* six grains; make *Troches*, which being mixed with the white of an Egg or the Juice of *Quinces*, may be applied to the Corner of the Eye. Or,

Take *Tutty* prepared in a fine Rag, and tie it with a string, and put it in sharp Wine, and with this often wash the Eyes. Or,

Take *Tutty* prepared, *Egg-shells* powdered, the best *Aloes*, of each one dram; tie them in a Rag and make a little Ball, which steep in *Fennel-water*, and squeeze the Ball often into the Eyes.

Onely *Aloes* powdered and made into a Ball (as above) and put into *Rosewater*, is very good. Or,

Take *Aloes*, *Cypress-Nuts*, *Frankincense*, *Mastick*, *Myrrh*, of each two drams; *Tutty* prepared, and *Sarcocol*, of each one dram and an half; *Sanguis Draconis*, *Barberries*, *Sumach*, red *Roses*, of each one scruple. Powder them finely, and with *Fennel-water* make a *Collyrium*.

In a hot Defluxion this is excellent:

Take of white *Troches* of *Rhasis* without *Opium*, *Sarcocol*, *Lycium* or *Box-thorn*, *Acacia*, *Olibanum*, of each one dram; the *Stones* of *Myrobalans* calcined, of white and red *Coral*, of each half a dram: *Pearl* half a scruple; as much of the Juice of *Pomegranates* boyled to half, as will make a *Collyrium*.

If Redness be joyned with it, this following is profitable:

Take of the *Seeds* of *Sumach* bruised, one scruple; hot *Plantane-water* one ounce; macerate them awhile, then press them strongly, and put of *Roses*, *Eyebright*, and the water of the white of an Egg well beaten, of each half an ounce; *Sugar-Candy* finely powdered and strained, with a little water, one scruple, Make a *Collyrium*.

Lastly, Those Medicines which were prescribed for an old Ophthalmy, are good in this disease.

CHAP. XVIII.

Of Pterygium, or Haw in the Eyes, called
Unguis.

THis is a hard and Nervous little Membrane, which coming out of the great Corner of the Eye, first covereth the White and after by continuance the Black, and covering the *Papilla* hindreth the Sight.

Sometimes it is thin and white; sometimes it is fleshy with many red Veins, and it is called a *Panicle*, and *Sebel* by *Avicen*; although some distinguish a *Panicle* from a *Haw*, or *Ungula*; because *Ungula* is a Nervous Tunicle without repletion of Veins, and is only in the *Adnata*: But *Sebel*, or *Panicle* covereth the whole Eye, and is very red and full of Veins.

This Disease comes from Ulceration of the flesh in the Corner of the Eye, or of the *Adnata*, whence there comes a roughness or inequality in the part, which while the nourishing Faculty labours to make equal, it fills with blood and begets a preternatural increase, or covereth it with a skin.

And because many Excrements do use to flow to an Eye disordered, therefore the Haw is not bred of pure blood, but of many Excrements also, whence arise many sorts of Haws: Because, Some are hard, others soft, some white, some red, some yellow, some brown, others are easily separated from the *Adnata* and *Cornea*, others stick fast; some are simple and without malignity, others are Cancerous and filthy.

DIAGNOSTICK. The Diagnosis or knowledge of this Disease is known by what is said, also the Causes, namely, the Humors of which it is made, may be known by their colour: for a red Haw comes of pure blood; a yellow of Choler; a white of Flegm; a dark and black one of Melancholy.

PROGNOSTICK. As to the Prognostick, this Disease is scarcely to be cured, and that in a long time, because sharp Medicines which are proper for to eat it away, cannot be used but by degrees, by reason of the exquisite sense of the Eyes.

If the Eye effected grow smaller, it is an evil sign; for it argueth the Debility of the part.

A new Haw and small may be cured with Medicines; but an over grown, old, and one covering the black of the Eye, cannot but by Chirurgery.

A Haw which is thick, turn'd out, stretcht forth, hard and black cannot be cured, for it is of a Cancerous nature.

CURE. The Cure is to be directly by the Antecedent and Conjunct Cause.

In respect of the Antecedent, first good Diet is to be enjoyed, such as is mentioned in other Diseases of the Eyes from Fluxes.

Also the aforementioned Evacuations and Revulsions may here be used, namely, Purgations, Bleedings, Cuppings, Vescatories, and the like.

And when the Body is sufficiently purged, we must come to Topicks, which may consume the Haw.

Beginning first with mild, such as were they which we spake of, in curing of the spots in the Eye called *Phlyctenæ*, which not prevailing you must use stronger, which are frequent in Authors.

Foreſius commends this following:

Take of the Juice of Fennel four ounces; the Juice of Celandine three ounces; the Juice of Rue two ounces; the Juice of Mallows two ounces and an half; Aloes one dram; Vitriol two scruples; Verdegreece one scruple; Ginger and Cinnamon, of each half a scruple; the Gall of an Eel half an ounce; the Gall of an Oxe or Hog two drams; Sugar Candy two scruples. Let the Juices boyl with the rest, and then clarify it, and make a Collyrium.

This is also by him commended:

Take of Bloud-stone two drams; white Vitriol and Verdegreece calcined, of each three drams; Myrrh and Saffron, of each one dram; long Pepper half a dram; Sugar-Candy half an ounce; Powder them very fine, and mix with one dram of this Powder two drams of Radish-water, and apply twice or thrice in a day, as the Patient can endure it.

Before you use these Remedies, you must Foment the part with an Emollient Decoction, which you must do also afterwards to assuage the pain.

Among

Among the Mildest this following is best :

Take of Cuttle-Bone one scruple, Sugar-Candy one dram : Vitriol half a scruple : Tutty prepared half a dram. Mix them, and make a fine Powder to lay upon the Haw.

If it cannot be taken off with these Topicks, you must fall to Chirurgery, and taking up the *Ungula* with a Hook at the bottom or root, draw a double Thread through it with a Needle, then laying it down close on both sides beneath, cut it off with your Sissers : as is more at large shewed by *Celsus, Paulus, Aetius, Ferom ab Aquapendente* in their Chirurgery, and by others.

Having made Incision, lay on a little Lint dipped in Rosewater and the white of an Egg, to assuage pain and hinder Inflammation.

And lastly, you may heal it up with drying Medicines, as Collyrium of Tutty, Frankincense, Aloes, the white Troches of *Rhasis*, and the like.

The End of the Second Book.

THE

THE
THIRD BOOK
OF THE
PRACTICE
OF
PHYSICK.

Of the Diseases of the Ears.

The Preface.

THe Ears, as Galen sheweth in 1. de Symp. caus. cap. 2. have divers Diseases Similary, Organick and Common; which because they are not to be known, but by their Symptoms, I determine to reduce them into a Series of Symptoms. The Symptoms in the Ears either are such as come from the Action hurt, or the fault of the Excrements. The Action is hurt either in the Ear alone, or in all Instruments of Sense. The Action proper to the Ear, namely Hearing, is hurt by being abolished, or diminished and depraved. It is abolished by Deafness, diminished by thickness of Hearing, depraved by a noise in the Ears. The Action common to all the Instruments of Sense is Feeling; by which they are subject to pain. The fault in the Excrement is seen by all those things which come preternaturally out of the Ear. So this whole Book hath Four Chapters. The first is of Deafness and thick Hearing. The second of noise in the Ears. The third of pain in the Ears. The fourth of those things which preternaturally come forth of the Ears.

CHAP. I.

Of Deafness and thick or dull Hearing.

WE comprehend Deafness and thick Hearing in one Chapter, because they come of the same Causes, differing only in Degrees, so that when they are great they take the Hearing quite away, when less they diminish it: And both these are called vulgarly Deafness, for they who cannot hear any but such as speak very loud, are called Deaf Folk.

But *Surditus* properly or Deafness, is called in Greek *Cophosis*, when the Hearing is totally gone, so that the Patient either heareth no noise, or if he do, he cannot distinguish it. These are often dumb if they are born so; not only because men learn to speak by Hearing, but by reason of the great consent that is between the Instruments of Hearing and Speaking by the Nerve of the fifth Conjugation, whose chief Branches are brought to the Ear, but some of them reach to the Tongue and Throat; whence it is, that when the inner Ear is pulled, there is a cough raised; and the reason is plain, for they who are born deaf, if they had their Instruments of Speech corrupted, would by a
Natural

Natural Instinct send forth some Articulate Voyce: as other Creatures, although they are kept from their birth from other Creatures of the same kind, so that they never hear them, yet they produce their connatural Voyce: but men born deaf never sent forth an Articulate Voice, but onely a confused sound, which argueth a manifest hurt of those parts which serve for Speech. Now the hurt of those parts is chiefly from humidity, which affecting that Nerve which goeth to the Ears, Tongue and Throat, must needs hinder both Speech and Hearing.

Thick Hearing is called in *Greek* *Baruecia*, and they who are so, hear difficultly, and understand not what men say, except they speak very loud. Others cannot hear so well, and not except the speakers whoop and hollow in their Ears.

CAUSES. Both these Diseases come from the Distemper of the Brain or Ears.

A cold distemper of the Brain, or Repletion or Weakness, or some other hurt in that part, especially in which is the rise and progress of the hearing Nerve, may cause Deafness or thick Hearing.

SIGNS. The Diseases of the Ears are either in the inside or outside thereof.

In the Exterior Cavity, a perfect or an imperfect stoppage from a Tumor, Imposthume or Bloud, Matter, Flegm, and other things coming either from within or without, may cause a defect in the hearing. But you must observe, that the stoppage of the external passage cannot make a perfect and absolute Deafness, but only a thick hearing, because sounds may be carried by the Mouth also to the Ear: For there is an open way from the internal Cavity of the Ear to the Palate, by which sounds do easily pass and insinuate themselves into the Ears, and this passage is made for the purging of the Ears. And many Experiments do shew, that a sound may pass through the open Mouth to the Ears. We may observe, that they who are very thick of hearing, will open their Mouths that they may better hear those that speak unto them. And if you stop both Ears close, and strike a Musick Instrument with a stick held in your Teeth, you will hear the sound better. And when you travel in the Night, you will better hear any man coming afar off, if you put one end of your Sword or Staff between your Teeth, and fasten the other end upon the ground.

The Humors which are gathered into the internal Cavity of the Ear, and especially such as flow from the Head do cause deafness or thick hearing in the inner-part of the Ear, and these are for the most part flegmy, and sometimes cholerick; as appears *Aph. 28. Sect. 4.* where *Hippocrates* saith, That cholerick Evacuations are good for deaf men; sometimes bloody are good, for it is manifest, that the deafness accompanied with the Crisis comes from the Flux of blood to the Ears. Now the humors are sometimes sent from the whole Body to the Ears, as in continual Feavers, and especially those that are malignant. The ill composition of the Instruments of Hearing produceth the same effects; as when the Tympane or Drum groweth too loose by a violent noise or over-moistness: and for this reason deaf people are more thick of hearing in Southerly-weather, because the Membrane is relaxed by the moistness of the Air; or when the Tympane is over-stretched or dried after a violent Disease, long watching or fasting; or when it is broken by violent motions, or eating by a corroding humor: Sometimes blood cometh forth after a great hurt and matter without hindrance to the hearing, because the passage is between the Bone and the Membrane. Or when any parts of the Ear, either originally, or by some outward cause, as stroke, fall, or the like, are put out of their natural order. Moreover, a cold Distemper useth to produce this Disease, coming either from the cold Air, or very cold Water poured in, or over-much use of stupefactive Medicines called Narcoticks.

'Tis very hard to distinguish all these Causes by their proper Signs, but by Art and Conjecture thus:

If Deafness come from the distemper of the Brain, either other Senses suffer, or there appeared some peculiar diseases in the Head, as Head-ach, Drowsiness, Apoplexy, Lethargy, and the like.

The stoppage of the External Cavity of the Ears is discernable by the Eyes, if you look upon them in the Sun, for then it will appear whether it be a Tumor or thick Matter, or any other Heterogeneous substance of another Nature which filleth the Cavity. As also the Patient will tell you if any thing fell into the Ears.

But if the Internal Cavity be filled with a Humor, we may conceive it to be Flegm, if the Patient were formerly subject unto defluxions of that sort.

But that this comes from Choler, is known by some Cholerick Feaver that went before, or now possesseth him, or by some violent pain. But when it comes from blood there is a heavy pain, and abundance of blood in the whole Body, and this appeareth often in critical disturbances.

The looseness and moistness of the Tympane is known by the causes preceding which were moist, and distempered some other part; for it can scarce be, that moist causes should onely affect that part and no other.

You may also know the distention and dryness of the Tympane by the dryness of the whole Body, and by the drying causes foregoing.

And

And for the breaking or corroding of the Tympane, you may know that, if there were formerly any vehement Causes that could breake or gnaw the same.

PROGNOSTICK. You must make your Prognostick thus :

Deafness by birth, and of long continuance, if it be absolute and total, is not curable ; and that which is not absolute, if it be old, is never or hardly cured.

Deafness from Cholera or blood which happeneth only in sharp continuing Feavers, used to be cured with these Feavers.

Thick Hearing if it be not speedily cured, endeth in perfect deafness ; witness, *Galen. 3. de comp. med. sec. loc. cap. 3.*

The Membrane of the Tympane being broken, or a scar left thereon, makes an incurable deafness.

A deafness encreasing and decreasing by degrees is curable, for it signifieth that it comes from a moveable humor, which sometimes is more, sometimes less in quantity.

A deafness coming from distemper of the brain, is more easily cured than that which comes from a proper disease of the Ear.

CURE. As to the Cure: That deafness which depends upon any disease of the Brain, requireth no other Cure, than that which belongs to such diseases, which you may find in their several Chapters. That which comes from a Tumor, if it be hard and old, admitteth no Cure ; but if it be hot, you may find the Cure for it in the Chapter of pain in the Ears. But if it come from Matter gathered in the Ear, you may find the Cure in the last Chapter of the Treatise, where we shall speak of those things which preternaturally come forth of the Ear.

If the disease comes of dryness, it must be cured by the way of *Rhasis*, that is by moistning things, long sleep, and washing of the Head with warm water ; as also putting of moist things into the Ear, as Oyl of sweet Almonds, and the like. If deafness or thick Hearing come from any thing that is fallen into the Ear, that must be taken away with washing, shaking, or extracting : or if any Vermine are got into the Cavity of the Ear, they must either be taken forth, or killed there : they are washed forth by making the part moist and slippery, and enlarging it with either Milk, the Oyl of sweet Almonds, or some mollifying or relaxing decoction : they are shaken forth by needling, for so by the force of the air the parts being moved, that which lieth in the passage of the Ear is excluded, and the sooner if they be first made slippery and enlarged with Medicines (as we said.) It is good also to hang down that side of the head, and to hop upon the leg on that side ; by which way the Boys after swimming get the Water out of their Ears ; If these will not do, you must endeavour to draw it forth with an Ear-picker ; taking heed, lest when you put it in, you thrust that which you would draw forth, further in ; therefore let the spoon of the Ear picker be very thin that it may easier pass by the thing in the Ear. Or you may lay hold of it, and take it out with a pair of Forceps made on purpose, rough on both sides within. And if this avail not, when the body is hard, as a nut or stone, it must be laid hold on with an Instrument and broken, and then the Ear must be washed as aforesaid. If the Ear-picker will not enter, arm your probe with a little Cotton all over, and then dip it in Turpentine, or in some other clammy substance, and put it in the Ear that it may stick to that which is there, and stopper the Ear. The same may be done with a Wax Candle touched with Bird-lime ; and if any of the Bird-lime stick in the Ear, you may afterwards take it out with the Ear-picker. There are some which put a hollow quill into the Ear, and draw out things with sucking.

The worms in the Ears are inticed forth by laying to such things as they love, as milk with Sugar laid to the Ear in a sponge, or easily put in ; or a Fig turned inside out ; or the Pap of a sweet Apple, or Bacon, and turning the Ear to the Sun at that time ; and especially if Horse-leeches get in, they are drawn forth by an Injection of blood. Fleas are drawn forth with dogs hair ; but if they be living they must be killed, and then they will less hinder the hearing, and will be drawn forth more easily : And they are killed with fasting spittle, or your own Urine dropt into the Ear.

Bitter things do sooner kill those Vermine, as the juyce of Wormwood, Centaury, or the decoction of Aloes or beasts Gall. Also sharp things, as Vinegar, juyce of Onions, and the like.

And because the usual cause of deafness is a cold distemper and a defluxion of moisture to that part, you must labour most to oppose that.

But because this defluxion comes originally from the brain, therefore we must begin the Cure there, as in the cure of the cold distemper of the brain ; which a Prudent Physician will moderate according to the degrees and violence of the distemper.

The brief way of Cure is, first attenuating diet, moderately warm and drying, such as is prescribed in *Gutta serena* : and then avoiding of Southernly winds, by stopping the Ears ; and vaporizing nourishment, as Garlick and Onions ; as also things that beget thick and flegmy Humors ; First, Let a general Evacuation be made by Pills, Cephalick Purging Apozemes ; then by Phlebotomy if need be ; to which add if the disease be stubborn, a sweating diet ; and then use particular Remedies that reveal the defluxion, as Cauterics, Vesicatories, Needling, Masticatories, Gargarisms : bubo

Masticato-

Masticatories or Chewings, are peculiarly necessary in this Disease, by reason of the passage which comes from the internal Ear to the Palate, and throws out the excrements of the Ears.

And finally, When the Disease grows old, you must use ordinary Pills, Magistral Syrups, Cephalick Opiates, Pouders and Caps to strengthen the head, and the like. All which are laid down in the Treatise of the Cold Distemper of the Brain.

In time of Diet, if the Disease be stubborn, Bags are good applied to the Head after the sweating Potion is administered, as in the said Treatise is prescribed, not only the forepart of the Head, but to the Ears also.

Brimstone and Bituminous Baths are very proper in this Disease, with washing of the Head, for by them sweat is provoked, and the matter of defluxion is drawn out. But by washing of the Head the Brain is strengthened and dried, and the humors fixed in the Ears are discussed. The way of using them is described by *Penotus*, and much commended in these words: *There is nothing in the Cure of Deafness more prevalent after the use of an hundred Medicines, than that the Patient after his Body is first well purged, and then his Head, Wash his Head well in Brimstone Baths, thus: Let him wear a great Cap reaching to his Eyelids, and beneath his Ears, made of Sponges sewed together; let him sit under the cock or spout in the Bath, and let it run upon his Head; which water the sponges will suck up, and so keep the head in a continual heat; and so opening all the Sutures of the Head, and Commissures, it will take away all the vapors: or it will breath away the matter compacted in the Nerves, and the passages for Hearing, or so change it, that it will quickly be gone: It is good for him to sit so twice in a day for two hours, and presently after to sweat in his bed, and use a slender Diet of Juices and Broth, and to beware of Wine except it be very weak.*

Then you must use Topicks to discuss the matter fastned in the Ear, which may be thus applied.

Take of the Leaves of Organ, Wormwood, Pennyroyal, wild Marjerom, Sage, Mints, Centaury the less, Mallows, and Marsh-mallows, of each one handful: the flowers of Camomel, Melilot, Stæchas, and Rosemary, of each one pugil: Cinnamon and Cloves, of each half an ounce: Boyl them in equal parts of white Wine and Water: Foment the Ear with the straining hot in a sponge morning and evening.

Of the same Decoction you may make a Fumigation into the Ear by a Funnel which must needs be excellent, because the vapor arising from the hot Decoction must needs reach into the innermost parts of the Ears.

Instead of a Fomentation you may apply a hot Loaf made with Caraway-seeds, and cut it in the middle.

Or take ordinary Bread from the Oven, and break off the lower crust, and dip it in the Spirit of Wine, and let the Patient endure it at his Ears as hot as may be, that the vapors may be received in.

Bread made of Bran is better with Caraway seeds, Bay berries, Juniper berries, and Nutmegs mixed before it be baked: then after it is a little baked, break it and apply it hot to the Ears.

If you desire a stronger Decoction for Fomentation and Fume, you may add one or two drams of the Pulp of Coloquintida, and the root of white Hellebore. You may make this Decoction in white Wine alone, or with Vinegar, that it may pierce more, and discuss.

The Fume of Cloves may be taken with much profit to the Patient by a Funnel into the passages of the Ear when the Head is covered with a warm cloth.

After Fomentations and Fumes, you must put some liquor into the Ears, and then stop them with Muskified Cotton.

Take of the Oyl of bitter Almonds and Rue, of each one ounce: Mix them and put them hot into the Ears. Or,

Take of white Lillies and Castor, of each one ounce: the Oyl of Dill half an ounce: white Hellebore half a dram: Aqua-vita one ounce. Boyl them in Balneo Mariæ till the Aqua-vita be consumed; strain them for the use aforesaid. Or,

Take of Cypress-roots, Bay-berries, Annis and Cummin seed pondered, of each one dram: Powder of Castor half a dram: Oyl of Rue as much as will be sufficient; Mix them and put them into a great hollow Onion; roast it, and strain out the Liquor to be dropped into the Ears.

Chymical Oyls work most powerfully; as Oyl of Rosemary, Marjerom, Sage, Fennel, Spike, Cloves, which are too strong to be used alone, therefore you must mix a very small quantity of any of them with the Medicines mentioned, thus:

Take of the Oyl aforesaid two ounces: Oyl of Spike, Cloves, or the like, half a dram or a dram: Mix them.

There is also some Waters, which if dropped into the Ears do much good. Some Authors commend the Water of an Ash, which is made by putting one end of a green Ash into the fire, and taking the Water out of the end: this is best when the deafness cometh of a hot cause, and you fear to use hot Medicines. But if not, then you may mix as much Aqua-vita therewith. *Mathioli* mixeth this

this Water with Juices, and commends it highly in these words: *We know that the Water which comes out of Ash, when it is burnt, mixed with the Juice of Sowbread, Squills and Rue in equal parts warmed together, to be excellent against Deafness, if it be dropped into the sound Ear when the Patient goeth to bed, and lieth upon that Ear which is deaf: but when both Ears are deaf, then into that which is least affected.*

The Spirit of Wine wherein white Hellebore hath been infused, being dropped into the deaf Ear, is very efficacious.

Others commend the clarified Juice of Ivy mixed with strong white Wine.

The Galls of Beasts, as of Hairs, Goats, Partridges, are much commended if they be used fresh, with an equal portion of Honey, and warmed in the shell of an Onion:

The fat dripping of an Eel is much used, Put a great Eel upon the Spit, and take the dripping upon Bay-leaves and drop it warm into the Ears.

Zechius commends Ants Eggs, in these words: *Ants Eggs mixed with the Juice of an Onion, and dropped into the Ear, do cure the oldest deafness.*

The blood of a young Wolf, dropped hot into the Ears doth the same.

Lastly, if the Disease be so stubborn that it will not yield to the Medicines prescribed, it will not be amiss to use the last Remedy which is prescribed, by *Fonseca*, consult. 58. tom. 2. namely, an Unction with Quick-silver, because when Deafness comes of the *French Pox*, it is so cured, and it may be when it comes otherwise; and the reason is, because Quick-silver doth dissolve and discuss hard tumors, when they are gathered upon any part, and therefore when Flegm is gathered in the Ears which no other means can dissolve, Quick-silver may dissolve it. But this Remedy must not be tried but in a desperate condition; for it is doubtful what the event will be, and the Unction with Quick-silver doth much weaken the Brain, and cause defluxions. So that some who have been cured of the Pox by Quick-silver, have after fallen deaf by defluxion; although sometimes (as I said) deafness coming of the *French Pox* is cured thereby, and Quick-silver rightly used after due Purgation doth no hurt to the Brain.

This you must always observe in the use of Topicks, that you never put cold things, but warm, into the Ears, and you must not dress them till the old Medicine be taken out. And after dressing you must stop the Ear with Cotton Muskified, for that only conduceth much to the Cure: as *Forestus* saith, *Obs. 15. lib. 12.* in these words: *A woman of Delf after a long disease fell deaf, which after sufficient purging abstained from Physick: at length she was perswaded by an old woman to put a grain or two of Musk into her Ears with a little Cotton, and so doing she was wonderfully cured. I have cured many the same way whose Ears have run.*

Chap. 2. Of Noise in the Ears.

THE Sense of Hearing is hindered by noise in the Ears; for as the Eyes must be void of all colour that they may truly perceive the colours of all Objects, and when they have a preternatural colour, as in the Jaundice, the sight is depraved; so the Ears must have no sound in themselves, that they may more distinctly receive all other sounds; and if there be any noise in them, the Hearing is depraved. This is called in *Greek* *Paraousis* in *Latin* *Obanditio*, vulgarly a noise in the Ears.

CAUSES.

This comes from preternatural motion of the Air which is naturally contained in the Ears; for as *Aristotle* saith, Though the natural Air in the Ear do move, yet the noise is not heard except you stop the Ears with the hollow of your hand, or the like, for then the hearing is more inward when the outward Air is kept out. This is seen by experience, when one stoppeth his Ears, and holds the handle of an Instrument in his teeth, the sound will be four times greater than when his Ears are open, for it passeth through the mouth; there is a natural motion of Air in the Ear by the *Spiritus Acusticos* continually working. But if it be too violently moved, then there is a preternatural noise in the Ear which hindreth the hearing.

The Causes are many of this preternatural motion, but chiefly a Vapour or Wind sent from other parts into the Ear, or bred there; either coming from the whole body, or from some peculiar part.

In Feavers it comes from the whole body; whence *Hippocrates* saith in *Coacis*; A noise in the head coming in an acute Disease is deadly, for it comes of wind sent by the Arteries from the whole Body into the Ears; it useth to come chiefly in the beginning of a fit, and before bleeding. Wind is also sent to the Ear from a peculiar part, namely, the Stomach, Liver, Spleen, Midriff, Womb, and the like; whence it comes to pass, that in great Vomiting, in Hypochondriack Melancholy, and fits of the Mother, there is for the most part a noise in the Ears. Often there is a wind sent from the head coming of a cold Flegm, through want of heat of the Ears by the Veins and Arteries, and the Nerves of the fifth Conjugation, by which passages also vapors come from the inferiour parts. Wind

is bred in the Ear also; of flegm contained therein; whence it comes to pass that thick Hearing is always accompanied with a noise in the head. For by the humor there is a stoppage, from whence comes deafness, and from the wind that proceeds from that humor, comes the noise.

There are other Causes of this noise, as a great stroke upon the head, a great sound, Ulcers in the Ears, a hot distemper, weakness, and exquisite sense.

A stroke, by moving the Spirit in the head too violently, causeth a noise.

A great sound doth violently move the natural Air.

And Ulcers by the heat of the matter boyling and working, make a noise; and by the Spirits gathered thither, and moving the Natural Air.

A hot distemper fills the inward Arteries of the Ear with much Spirit: whence a great beating noise proceedeth. Sometimes too much Spirit is sent by those Arteries into the Ears, and the Natural Air is thereby moved, from whence cometh a noise. And from this cause may come a continual noise for some moneths or years.

Weakness of Hearing useth to make a noise in the Ears, as in sick people, because every sense debilitated is hurt by every violent or moderate object: so they who have weak sight, are offended by a small light.

And lastly, When the sense is most exquisite, as *Galen, lib. 3. de comp. med. sec. loc. cap. 1.* there will be a noise in the Ears, because even moderate objects are too vehement for it. Now this exquisite sense must be preternatural, for the exquisiteness of sense cannot of it self produce a depraved action, but rather the more exquisite it is, the less it will err. The preternatural exquisiteness of sense comes from a hot distemper, Ulcer, or the like: as parts inflamed do depravedly, that is painfully feel moderate touchings. Or if the exquisiteness of sense be Natural, you must suppose that the cause of the noise is preternatural; for the vapor which is so little that it cannot be felt of dull sense, and so the action not be hurt, will be felt of him that hath exquisite sense, and will cause a noise; so that in one it is Preternatural, in another Natural.

DIFFERENCES. There are divers sorts of sounds in the Ears, which proceed either from the quantity of the vapors as they are more or few, thinner or thicker, swift or slow in motion; for if the vapor be much, thick, and of quick motion, it will make a noise like swift running water, or like a Drum, or like some such Musical Instrument, or a rushing Wind or the like; but if it be little, thick, and move quick, the noise is like the falling of a Tree or House.

If it be much thin, and swift in motion, it causeth a hissing, or is like falling of a gentle water. If it be little, thin, and quick in motion, it causeth a tinkling. If it be much, thick, and of slow motion it makes a murmuring noise. If the matter be little, thick, and slow in motion, it makes a kind of whispering noise. If it much, thin, and of slow motion, it causeth a hissing. And lastly, Because the degrees of thickness and thinness, of greatness and smallness, of swiftness and slowness, are infinite, therefore there are innumerable sorts of sounds in the Ears.

DIAG. There is no certain knowledge of the causes aforesaid, as *Galen* teacheth 3. *de comp. med. sec. loc. c. 1.* but we may make conjecture from the precedent causes and circumstances.

We conjecture that the noise comes from Wind, because sometimes it ceaseth, and returneth again; as also when the Patient hath formerly used to eat windy meat.

It cometh by consent from other parts, when there is some peculiar disease in them.

It appears to come from the Brain when pain and heaviness of the Head went before, and when other senses also are hurt.

That the fault is in the Ears, appears by a continual noise without any intermission.

We know that the disease comes from a cold matter; if the Patient be better for the use of hot things, and if in time of health great noise be not much disturbance.

The difference of sounds above mentioned, do shew whether the disease comes of thick or thin, many or few vapors, it will easily appear by what hath been said.

When it comes from the weakness of the faculty of Hearing, as from some Diseases aforesaid, of which the Patient is scarce recovered.

We conjecture that it comes from a hot distemper, and from an exquisite sense coming thereupon when the Patient perceiveth a heat in his head about his Ears; when some hot causes went before, and Medicines that disperse wind do encrease the disease; as also when the Patient in time of his health could not endure any great noise by reason of the exquisiteness of the sense.

PROGNOSTICK. As to the Prognostick. A new begun noise in the head is easily cured, but an old, hardly; and the more if it come from the French Pox. That which proceeds of a hot cause is more easily cured than that which comes of a cold.

An old noise coming of flegm contained in the Ear, turneth to deafness, for when the matter is encreased, the passage of Hearing is stopped.

CURE. The Cure of this Disease is divers in respect of the diversity of Causes.

And first the Cure of Noise in the Head coming from consent with other parts depends upon the Cure of the Diseases of those parts, and must be taken from their proper Chapter.

But that which comes principally from the Ears distempered, must have its proper Cure : And if it come of a cold distemper and thick vapor, it will be cured as in the Treatise of *Thickness of Hearing* ; for they are alike, and one is sometimes changed into the other, and sometimes they are complicated and joyned together : For Noise in the Ears is the fore-runner of thick Hearing and Deafness.

Therefore all Remedies both Universal and Particular, may be used here which we prescribed in the former Chapter of Deafness and thick Hearing.

If the Noise come from an Ulcer in the Ear, it requireth no other cure than that which is proper for the Ulcer. And that shall be laid down in the following Chapter.

If it cometh from weakness of Sense, as in them who are lately recovered of some great Disease, it will vanish of it self as the Body gathereth strength : yet you may drop some proper temperate Oyls sometimes into the Ears to mitigate, as Oyl of Camomel, Dill, Sweet Almonds, and the like.

And Finally, If it come from a hot distemper and exquisite Sense, you must prescribe a Cooling and moistning Diet ; as also drop cool things into the Ears, beginning with mild first, and after proceeding to stronger.

And first, use the decoction of Barley, Violets, Lettuce, Water Lillies, to which you may put a little Balm or Camomel to make it pierce : which not prevailing, you must use the Juyce of Lettuce, Purslain, Henbane : *Galen* alloweth the juyce of Poppy and Opium it self, but these must be used sparingly and with much Caution, lest by weakning the natural heat of the parts, the Hearing grow more dull.

Chap. 3. Of pain in the Ears.

PAin of the Ears called *Otalgia* in *Greek*, is a violent disease, both in respect of the part affected, namely, the inward Membrane which goeth about the Cavity of the Ear, as also by reason of the nearness of the Brain which often suffreth at the same time.

But since all pain comes from the solution of Continuity, all those things do cause pain in the Ears, which do dissolve the Continuity of those sensible parts which compass the Cavity of the Ear : the chief whereof are Distempers both without and within, Matter, Wounds, Ulcers, or things fallen, or put into the Ears Externally.

A cold distemper doth sometimes cause pain in the Ears, and it comes from cold Winds, cold Baths, and very cold causes.

A Hot Distemper without Matter, seldom or never produceth a pain in the Ears, as Cold doth : For Cold is an Enemy to these Nervous and Membranous parts, but Heat is a Friend to them. Nor can it cause any pain but that which is excessive, and will cause a defluxion of Humors to the parts, and then it is not without Matter. For this Cause neither *Galen*, nor any of the Ancient *Greeks* made mention of a hot distemper, although *Avicen* of the *Arabians* hath mentioned it.

Now the Cold Matter which causeth pain in the Ears, is either flegm or water which comes from the Brain into them, or else Wind from the Brain or the inferiour parts.

But the Hot Matter is either Choler that falls from the Veins and Arteries into those parts, or Bloud, from whence cometh Inflammation.

The aforesaid Cause produceth an occult Solution of Continuity from whence cometh Pain. But manifest Solution of Continuity ; as Wounds and Ulcers are more evident Causes of Pain. Wounds come from external Punctures, as Cuts and Contusions. But Ulcers come either after Inflammation and breaking of an Imposthume, or from sharp Humors that corrode the parts.

Finally, Things that get into the Ear outwardly, if they be hard, sharp, or any ways piercing or biting, will cause pain.

You may know all these Causes thus, If the distemper be without Matter, there will be no heaviness, distention or tumor : and you may know that the distemper is cold, when cold Causes have preceded, as travel in Winter, when the pain increaseth in cold Weather, or with cold Medicines and decreaseth with hot : but you may know a hot distemper by hot causes preceding, as being long in the Sun or heat, and when hot Medicines hurt, and cold do profit.

If the Pain come from Flegm, there will be a heaviness in the Ear and the Head ; as also a Rheum will fall upon some other part, besides cold causes did precede, as cold and Northerly Weather, cold Meats ; or it is Winter, and the Patient is old, and the like.

If it come from Wind there will be a great pain without weight or heaviness, not constant, but intermitting and with noise.

That it comes from Water, the Patient will have other Diseases from the same, as sharp and thin defluxions upon the Teeth, Eyes, Ears, Breast and other parts; and Evacuation of serous Matter by Vomit, Stool, Urine or Sweat.

If it come from a Cholerick Humor the pain will be sharp and pricking, and there will be sensible heat; it will be mitigated with cold things, and choler will sometimes come forth of the head: the Body is of a Cholerick temper, the Party young, the Weather hot, and Diet also with the like, by which the Patient is often distempered.

DIAGNOSTICK. An Inflammation is known by a great beating pain, with great heat and redness about the Cheeks and Temples, to which there is joyned a continual violent Fever; sometimes Doting, Swooning, Convulsion and coldness of the extrem parts.

A Wound is known by the blood which will come forth of the Ear, but an Ulcer by the filth, or matter; but because sometimes there is a defluxion of filth from the Brain by the Ears, we must distinguish, for if it comes from the Brain, there went before it an Head ach and other signs of an Imposthume in the Brain. And first the matter is sent forth in great abundance, and after by degrees while it is all spent. From an Imposthume in the ear may come plenty of Matter, but then there were signs before of an Inflammation there, and afterward followed an Ulcer, which you may know whether it came from an Imposthume or a defluxion of sharp Humors by these signs following; there is a constant Flux of a little filth or matter by degrees: there is felt a pain burning and shooting in the Ear, especially if it be pricked. Moreover, We may conjecture of the difference of the Ulcers, for if it be in the bone, it is known by the thin matter yellowish, and by the long continuance of the disease. If it be deep, you shall know it by much Matter. If it be clean, by the laudible Matter. If it be foul, by the thickness and plenty. If it be virulent by the thinness. If putrid by the stink of it. If it be corroding, by blood following. If fistulous, from the oldness of the Ulcer, the virulency of the Matter, the callosity and hardness of the Flesh.

Finally, If there be any thing fallen into the Ear, either it may be seen or related by the Patient.

PROGNOSTICK. The Prognostick of pain in the Ears is divers, according to the diversity of the Causes. That which comes from a bare distemper is easily cured. That which comes from a cold flegmy serous, or windy matter is not very dangerous, but useth to continue long. But that which cometh from hot humors, and especially such as cause inflammation is very dangerous, for the Brain being nigh must needs consent, and be also affected: from whence Deliriums and Convulsions use to proceed. In this Disease young men are in most danger: for they being of a hot temper, and their blood hot, the Inflammation is greater: and this dissolveth the natural heat of the Brain, and killeth the Patient. Hence it is that they die for the most part within seven days. But old men who are colder, have less Inflammation, and so are in danger.

Ulcers in the Ears are hard to be cured, because the Brain being nigh, doth send its excrements to those parts: But those which follow an Imposthume are easier cured, especially if the Matter be laudable. But where the Matter is virulent, stinking or the like, it is difficult, especially if the Ulcer be cavous, and the Bone foul.

CURE. The Cure, as the Diagnostick and Prognostick, is to be varied according to the Cause.

For if it comes from a bare cold distemper, hot Medicines applied to the Ears are sufficient, such as are in the cure of Deafness, especially Fomentations and Fumes, as also the warm Oyls there described. But when a hot distemper comes without matter, it may be cured with Topicks which are cooling, which we will shew afterwards, and especially with the White of an Egg beaten with Breast-milk, and put into the Ears.

If it come from a cold distemper with matter, as Flegm, Water or Wind, you must use the Medicines prescribed in the Cure of Deafness. First Purge the whole Body, then correct the distemper of the Brain, and apply warm Topicks that disperse, unto the Ears.

If it come from a hot distemper with Choler, which is of long continuance, or comes by fits, First reveal the humor that floweth to the part by Phlebotomy, by which the hot distemper of the whole body with the Liver, in which Choler is made, is amended. Then purge the humor with proper Medicines. You may amend the hot distemper of the Liver with Juleps or cooling broths, with Whey of Goats milk, with sharp Vitriolat, Mineral Waters, with hot Baths and the like. And lastly, All things are proper for it which are prescribed in the Cure of the Head from a hot Cause. But you may use cooling Topicks and Anodines that take away pain, which we shall shew afterwards concerning the Inflammation.

Inflammation of the Ear is cured first by blood-letting, according to the quantity of the humor, for revulsion of it from the ears, first having given an emollient and cooling Clyster: This must be done in great quantity at divers times, for the greatness and violence of the disease requires it. You must open

open the Head Vein on that side the Ear is that is pained. If you think it comes from stoppage of Terms or Hemorrhoids, open the lower Veins, first having let blood in the Arm. When the cause is not from thence, it will do good for revulsion to apply Leeches.

Also you may make good Revulsions by Frictions and Ligatures of the Arms and Thighs, by cupping the Shoulders and Back with Scarrification, or without.

Sometimes for Derivation it is good to apply Cupping-glasses behind the Ears, with Scarrification; as *Zacutus Lusitanus* teacheth, *Observ. 64. lib. 1. Praxis Admiranda*, in these words: The Divine old man in his Second Book, *Epid. Sect. 6.* towards the end saith thus: For pain in the Ear, clap on a Cupping-glass. This worthy saying gave much help to a poor man which was in pain; and when all things failed and he grew weak with watching, and Mad with a continual Feaver, being ready to depart, having opened a Vein, and applying Cupping-glasses to the Shoulders and Neck, and taken revelling Clysters and purging and the like; as also Anodines into his Ear without any profit, he was cured only with a Cupping-glass with Scarrification applied by the Glandules of the Ears, which drew much blood, and took away the Inflammation.

The same *Zacutus Lusitanus* in *Paraxi ad Historias*, commends four Horsleeches applied behind the Ear, which he saith gave much ease to a young man which had a violent Inflammation in his Ears.

The cutting of the Arteries in the Temples of the Forehead, doth produce rare effects for the appeasing of the greatest pain in the Ears, by taking away the hot and windy blood which produced that gievous symptom. The way of doing it, is set down by us in the Cure of the hot Head-ach.

A Purge against Choler is good, for so the Choler mixed with blood, which by it is made so fluid, is drawn down, and sent forth.

Afterwards the whole mass of humors is to be tempered with coolie Juleps, made of the Decoction of Lettace, Purslain, Plantane, Sorrel and the like, with Syrup of Lemmons, Pomegranats, or Wild Poppies.

In the mean while, these Medicines are given; you must always apply Topicks, which must always be Anodine, by reason of the vehemency of the pain, the mitigation whereof must be your chief intent; and this will be more rationally done, if in the beginning and the encrease of the Disease you mix things that do gently repel; but in the state and declination things that resolve, such as these following:

Take of new Breast-milk two ounces; the white of an Egg beaten to Water half an ounce: drop these mixed together warm into the Ear.

Or Milk alone squirted into the Ear from the Breast, this doth much assuage.

Take Plantane and Nightshade, of each one handful; the flowers of Camomel and Melilot, of each one pugil: Make a Decoction, and let the Patient receive the fume thereof into his Ear by a Funnel.

Take of the Oyl of Water-Lillies and Roses, of each one ounce; Mix them and drop thereof into the Ear, after the fume.

† Sows infused in the aforesaid Oyls and strained, are the best Anodines; for these Creatures have especial force to appease pain, and therefore are used in the Tooth-ach, Hemorrhoids, and the like: or take them alive, and boyl them with Water in the Oyls till the Water be consumed.

If the burning be very violent, you may mix cooling Juices with the aforesaid Oyls, thus:

Take of the Oyl of Water-Lillies and Roses, of each one ounce; the Juice of Nightshade and Plantane of each half an ounce: Mix them and drop thereof into the Ear.

Rose Vinegar is used of some Practitioners made of two parts of Oyl of Roses, and one part of Vinegar, Which ought to be suspected, as all strong repelling Medicines; for there will be danger, lest the humor flowing thither should return to the Brain: and it is a general Precept always to be observed, That you never lay repelling Medicines to Inflammations which are near unto noble parts: but you may mix gentle Repellers with Anodines and Relaxers; for so they will moderately repress the Defluxion, nor will they drive it far back. Such are the aforementioned, to which you may add the following.

Take of the Oyl of Roses and Water-Lillies, of each one ounce and an half; Rose and Plantane Water, of each half an ounce: Breast-milk one ounce, the Mucilage of the Seeds of Plantane and Quinces drawn with Rose-water, of each six drams: Mix them. Put some drops thereof warm into the Ears, and bind clouts dipped in the same Liquor about the Ears.

In vehement pain we are constrained to fly to Narcoticks or Stupifacives; but you must use them seldom and with much care, because they offend the Brain. *Galen* saith, *3. de comp. med. sec. loc.* I know one, who only with the use of Opium took away both speech and sense from his Patient, that he could be cured neither with Opobalsum, nor any other hot Medicine injected. Therefore if necessity constrain, thus they are to be prescribed.

† Called a Cheslap, or Kitchen-bob, with many feet; which being touched gatherth it self round like a ball.

Take of Oyl of Pappy seeds one ounce and an half: Camphire and Opium of each two grains: mix them, and drop them into the Ear.

Take of the Oyl of sweet Almonds two ounces, the Juice of Mallows half an ounce, Myrrh half a dram, Saffron half a scruple, Opium three or four grains: mix them for the use aforementioned.

In applying of Topicks, the Rule of Galen is diligently to be observed, which is in *lib. 3. comp. medic. sec. loc. cap. 1.* that an Inflamed Ear be not touched, but let the Medicines be injected, by an Instrument for to see into the Ear, or a Probe armed with lint and dipt in the Medicines. Then that you ask the Patient if he feel it warm, and if he can endure it hotter? and let it be used so hot as he can suffer: You must put the Probe so armed gently into the hole of the Ear that the Medicine may soak from it into the Ear, you must do thus till the passage of the Ear be filled with the Medicine, then you must dip Lint in the same Medicine, and lay it to the hole of the Ear, and round about.

In the state of the disease, you must mix gentle resolving Oyls with Anodines, thus.

Take of Oyl of Camomel, sweet Almonds and Violets, of each one ounce: the Oyl of Lillies half an ounce; Mix them.

But these Fomentations and Fumigations which are made of the following decoction, do resolve more powerfully.

Take of Marsh-mallow Roots one ounce, Mallows, Nightshade, St. Johns-Wort, of each one handful: Linseed half an ounce, the seeds of Mallows, Marsh-mallows, and white Poppies, of each two drams: the Flowers of Camomel, Dill and Roses, of each one Pugil; make a Decoction in Water and Milk for a Fomentation and Fumigation. Water taken out of Ashen sticks, being dropt into the Ears easeth pain and dissolveth the cause of it. You must put green Ashen sticks into the fire, and take the Water that comes from both ends.

If the Tumor cannot be dissolved, but it seems to tend to suppuration; which you may perceive by the encrease of pain, the greater Pullation, and a stronger Fever.

You must help the motion of Nature, and apply this following Cataplasim.

Take the pieces of the former Decoction made for a Fomentation and Fumigation, and put to them of Ducks and Hens grease, Marrow of Teal, and the Mucilage of Eleabane and Eenugreck seeds, of each one ounce: the Oyl of Camomel and Violets, of each one ounce: Fresh Butter one ounce and an half: Saffron half a dram: Make a Cataplasim.

A Cataplasim of Crums of Bread is also very good; for it asswageth pains, and furthers suppuration gently without Inflammation: and therefore it is very proper in all Phlegmons or Tumors. You must make it thus.

Take of the Crums of white-bread one pound: boyl it in Goats milk to a Pultis, then add of the two yolks of Eggs, the Oyl of Roses two ounces: Saffron one scruple. Make a Cataplasim.

The Cataplasim made of an Onion, is much commended of *Victorius Faventinus*. Made thus:

Take one Onion: fresh Butter two ounces: Oyl of Camomel and Roses, of each one ounce: Saffron one scruple: Make a Cataplasim, apply it warm.

The Suppuration being made: the Imposthume breaketh, and the Matter comes forth either by the Membrane of the Ear made thin, or else corroded, and then the Patient must ly upon the Ear that is pained, that the Quittor may come forth; and you must drop such things into it as may cleanse.

Take of the Decoction of Barley four ounces, Honey of Roses one ounce; drop this warm into the Ears at several times.

If an Ulcer come from sharpness of Matter, you must have a peculiar way of Cure; such as is used to an Ulcer caused from a Defluxion of Humors.

And first, because according to the Opinion of *Galen. 4. de comp. Med. sec. loc.* we may not apply Topicks to any part, except the whole Body be first often purged; we must use ordinary Evacuations by bleeding and purging according to the nature and temper of the Patient; and these must be repeated through the whole time of Cure, as often as need requireth.

Then we must apply drying and cleansing Topicks or Medicines to the place affected, beginning with the mildest first.

The Examples of which are these.

Take of the best Honey and old White wine of each three ounces: boyl them, and skum them: drop off this into the Ear, and stop it with Cotton dipt in the same.

After that it may be stronger, mix the juice of Horehound, Smallage, Wormwood, and the lesser Centaury, or of Sowbread with Honey: boyl them gently, and drop thereof into the Ear. Or,

Take of the Juice of Bees one ounce, Horehound half an ounce, the best Honey six drams: boyl these a little, then add of the Syrup of Wormwood two drams. Mix them.

You

You may make a stronger Medicine thus :

Take of the juyce of Sowbread one ounce ; Myrrh one dram ; Saffron half a scruple ; Frankincense one scruple ; Verdegreece half a scruple ; old Wine one ounce and an half ; boyl them gently till the Wine be consumed. Drop of this twice or thrice in a day into the Ear.

Oblerve, Before you drop any Liquor into the Ear, you wash the Ear in warm Hydromel, or Water and Honey, and wipe it well with Lint upon a Probe armed.

When the Ulcer is sufficiently cleansed, you must come to Cicatrizing. Thus ;

Take of Round Birthwort, Pomegranate-peels and Galls, of each half an ounce : boyl them in equal parts of Wine and Smiths forge-water, to half a pint ; when it is strained add to it of the juyce of Plantane and Polygonum, of each one ounce ; Honey of Roses two drams ; mix them, and drop of this into the Ear. Or,

Take of Frankincense and Myrrh, of each one dram ; Gum of Juniper half a dram ; Sarcocol, and Labdanum, of each one scruple. Make a Powder of them and mix it with Turpentine into Balls, which you must lay upon the Coals, so that the Patient may take the Fume into his Ear by a Funnel.

Or you may mix that Powder with some of the aforesaid Juyces, and drop thereof into the Ear.

Or you may mix burnt Allum with White Wine, for this hath a very great drying quality.

If the Ulcer be stubborn and old, it is nourished by a defluxion, which you must labour to remove by usual Purges, Diets of Lignum vitæ and Sarsa, by Errhines Mastichatories, Cauteries, and other Remedies that will divert.

Then you must use stronger Medicines to dry the Ulcer ; such as we prescribed of juyce of Sowbread, Myrrh and Verdegreece.

Or this following Medicine of *Valescus*, with which he said that he cured a Priest that had an Ulcer in his Ear from the eighth year of his age :

Take of Honey ten drams ; Vinegar eight drams ; boyl them, take off the scum, and put to one dram of Verdegreece : Mix them.

These must be dropt morning and evening into the Ear, after it is washed with this Decoction ;

Take of Wormwood, Marsh-mallows and Agrimony, of each one handful ; boyl them in equal parts of Water and White-wine put to it towards the conclusion, to half a Pint : Dissolve in the strained Liquor Oximel simple one ounce and an half : Allum powdered one dram : wash the Ear with this warmed, and after dry it with an armed Probe.

If the pain come from sharp Medicines, drop in the Oyl of sweet or bitter Almonds with Myrrh, Aloes and Saffron ; and if it be violent mix a little Opium, or drop in the Oyl made of yelks of Eggs in a Leaden Mortar.

If the Ulcer be very foul, you must use *Egyptiacum*, dissolved in the aforesaid Juyces.

Lastly, *Galen*, *Aetius* and others, both *Greeks* and *Arabians*, do much commend the Rust of Iron for the drying of Ulcers in the Ear.

Galen 3. de comp. med. sec. loc. useth Scales of Iron ground or boyled with the sharpest Vinegar.

Hollerius in his Comment upon that Chapter doth prefer the *Arabian* Preparation, for they first grind the Iron with Vinegar, then they dry it ; thus they do seven times ; then they make it very fine, and boyl it long with the best Vinegar, while it is as thick as honey, and then they dry it and use it with Honey or other Liquors.

If the Pain of the Ear come from any thing fallen into it, as a little stone, Cherry-stone or the like, which will be very grievous, and sometimes cause Convulsions, Inflammations and Death ; as *Martianus de Gradi* saith of a Boy of ten years old had a Cherry-stone in his Ear, and through the ignorance of the Chirurgeon, he endured great pain, and after dyed.

You must draw out these things thus :

First, You may try with an Ear-picker, which you must carefully attempt, lest your Instrument force it further, which often happeneth.

Therefore if that which is fallen into the Ear do fill the hole, it is better to abstain from the use of the Ear-picker, and try these Remedies :

Paulus useth to dip his armed Ear-picker in Rosin, Turpentine, Gum, or the like ; and to put it the Ear, turning of it till you get it out by degrees.

If thus you cannot, put hot Oyl continually into the Ear to relax the part, and make the thing contained slippery, so it will easier come forth.

Use Neefings with the Mouth and Nostrils shut, for it so will be forced out of the Ears.

These are to be followed till the party be freed ; for if it continue long in the Ear, it will be inflamed

med, and then the thing will be more difficult and dangerous to be drawn forth.

Arculanus upon *Rhasis*, affirmeth that the head of a Lizard applied to the Ear will draw out any thing, and confirmeth it by his own Experience, in these words: *In my Experiences for drawing things out of the Ear, this is one; Tie a live Lizard, or one lately dead, with his head to the Ear for the space of three hours, and when you take it away, you shall find the thing sticking to the head of the Lizard; and this is good for the extraction of any thing wheresoever it is fastned.*

Lastly, If the former Medicines do not prevail, you must come to the use of a chirurgical Instrument, which is at large elegantly declared by *Fabricius Hildanus*, *Cent. 1. Observ. 4, 5, 6.* and by *Aquapendent* in his Chirurgical Operations, in his Chapter of the Chirurgery for the Ears.

Sometimes Fleas get into the Ears, and moving themselves in the Cavity bring much disturbance. For the taking out of them, make a little ball of Dogs hair, and put it into the Ear, so will the Flea by reason of its affection to dogs come into it. Or make a tent, and put it often into the Ear, with a little Turpentine.

Oftentimes through swimming, or washing of the Head, water getteth into the Ears, which is very troublesome: this is shaken forth by hopping on the contrary foot, and holding the Ear down. If this will not do, you must suck it out with a Reed, or pain of Bellows. If you arm the pipe with tow to make it stick close, and keep the Air out of the Ear it will be better.

Galen and *Actius* continue in powring in of Oyl, suppling the Ear, and then wiping it with wooll; and after using Oyl for divers times.

And lastly, Put soft and dry sponge into the Ear often, till it come out dry.

CHAP. IV.

Of those things which come forth of the Cavities of the Ears preternaturally.

MAny Preternatural things come out of the Ears, which we will set down particularly with their Remedies.

First, After an Imposthume is broken which came after an Inflammation, or from an Ulcer coming from sharp Humors, filth or matter useth to come forth; whose Cure is laid down in the former Chapter.

Sometimes blood comes out of the Ears; as in wounds of the head, or blows by which the Veins of the Ears are broken or rent. If this Flux be small, it is not to be stopt, because by the being retained it would cause Inflammation; but if it be great or of long continuance, it must be stopt by bleeding in the Arm, and Cupping-glasses applied to the Shoulders with Scarrification. Then you must drop cooling and binding things in, as juice of Plantane, Polygonum, or the decoction of Madder, red Roses, Mastich, Acacia, Hypocistis, Pomegranate flowers, Sumach, and the like, made in Wine and Vinegar, or Smiths Forge-water.

Sometimes Water comes out of the Brain into the Ears, as in children; which must not be stopt, for if it be suddenly stopt, it causeth the Falling-sickness, or some grievous disease of the Brain; for Nature casts forth Excrements by that way, though not proper; and the great moistness in childrens heads is not only purged by ordinary ways ordained by Nature, as the Nostrils and Palate, but also by the Ears, Eyes, and the whole Head, from whence it becomes fore. But when this Evacuation is symptomatical, and the humor begins to ulcerate the Ears and hurt the hearing, we will lay down a convenient Method for the Cure.

And first, The abounding humors in the Head are to be purged with gentle Medicines often repeated, and to be derived by Vesicatories to the Neck, and by Caustick.

Then you must cleanse the Ears, and dry them with this Medicine;

Take of the Juice of Agrimony and Wormwood, of each four ounces; White-wine, and Honey of Roses, of each one ounce: Boyl them a little, and drop into the Ear after it is wiped; then stop it with Cotton dipped in the same.

Take of White-wine four ounces; the Juice of Agrimony, Wormwood, and Centaury the less, of each one ounce. Boyl them, and drop into the Ear.

In elder people, if water floweth out of the Ears long, you must purge the whole body and the Brain with a Cephalick Apozeme that is purging; then you must consume the superfluous Humidity

dity with a Sudorifick Diet ; derive it with Vesicatories, Cauteries, and Cupping-glasses ; and use other Remedies which are set down in the Cure of the Cold Distemper of the Brain.

Lastly, There are Worms sometimes in the Ears coming out of the filthy Ulcers, which are cured with the Ulcer ; but because the Ulcer cannot be speedily cured, you must therefore endeavour, the Cure of the Worms.

Take this one Medicine as an Example :

Take of the Oyl of bitter Almonds, the Juice of Smallage, and the less Centaury, of each two ounces ; Vinegar two drams. Boyl them a little ; then add of Myrrh and Aloes, of each one scruple. Mix them, and drop into the Ear.

If you will make it stronger, put half a scruple of Coloquintida thereunto.

The End of the Third Book.

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THE

THE
FOURTH BOOK
OF THE
PRACTICE
OF
PHYSICK.

Of the Diseases of the Nostrils.

The Preface.

THe Nostrils use to have many Affects which are referred either to the Series or Method of Diseases, or of Symptomes. These are Diseases, An Ulcer, Ozæna, Sarcoma, and Polypus. These are Symptomes, the loss of Smelling, Stinking in the Nose, the Coryza or Pose, Neezing, Bleeding. Therefore this Fourth Book shall be referred to seven Heads; The First Chapter is concerning the Ulcer of the Nostrils and Ozoena. The Second, of Sarcoma and Polypus. The Third, of the loss of Smelling. The Fourth, of the Stink of the Nose. The Fifth, of Coryza, The Sixth, of Neezing. The Seventh, of Bleeding at the Nose.

CHAP. I.

Of the Ulcer of the Nostrils, and Ozoena.

THe Ulcer of the Nostrils is either New and Simple, or Old and Stinking. This last is called *Ozæna*.

CAUSES. The New Ulcer which is Simple, either comes of an External Cause, as a Wound or Contusion. Or from an Internal Cause, as the sharpness of Humors flowing to the part; and especially salt Flegm coming to the Brain.

Ozæna cometh from a simple Ulcer neglected, or from the Malignity and Acrimony of the Cause by which it becometh putrid and filthy.

DIAGNOSTICK. The Diagnosis of both is this; A Simple Ulcer causeth little or no pain, but only sends forth blood often, especially when it is meddled or tampered withal; otherwise it is covered with a dry black Scab which sometimes is cast forth. But *Ozæna* causeth great pain, the Scab is fouler, as also stinking Matter cometh from it. The Patient is not only annoyed therewith, but noysome unto others: and the *Greeks* call it *Ozæna* from the stink. Often this Ulcer creepeth, or eateth the Gristle of the Nose, or the parts between, or the tender Bones thereof, and putri-

fieth

fieth them and sometimes destroyeth the Palate, especially if it turn to a Cancer, or if it come from the *French Pox* as it often doth, or from an *Elephantiasis*.

PROGNOSTICK. As for the Prognostick. Ulcers that are new, and come from a gentle humor that hath little malignity are easily cured: but old Ulcers that are solid and putrid are hardly cured, and if they turn into a Cancer, never. If they come of the *French Pox* or *Elephantiasis*, they cannot be cured, except those Diseases be first cured.

CURE. For the Cure. First you must appoint a good Diet, which may assuage the sharpness of the humors, and hinder the breeding of them; then you must Evacuate the whole body by bleeding, convenient Purging, and Cupping-Glasses with Scarrification: And if the Defluxion of humors into the Nostrils be very stubborn, it must be derived by Vesicatories and Causticks applied to the hinder parts, and then you must give things to strengthen the head.

After Universal Remedies you must come to Topicks. And first take notice if the Ulcers be crusty and hard, and before you proceed, take away that with a little warm Water and fresh Butter, or Goose-grease, or Hens-grease, Oyl of sweet Almonds, or the like.

The Scabs being mollified must not presently be taken off by force, lest the Ulcer be exasperated with a Defluxion; but you must expect till they fall off of their own accord blowing the Nostrils; or at last you may take them gently off with a little Oyl of sweet Almonds upon the top of your finger.

After the Scab is off you must use astringent and drying Remedies.

In a simple Ulcer it is sufficient to wash it with Barley water, and Honey of Roses, and then to anoint it with Oyntment of Tutty, or with the white Oyntment of *Rhasis*, or the Oyl of yolks of Eggs, which will be of more force if it be made in a Leaden Mortar.

But for the Cure of *Ozæna*, you must prepare these following Medicines:

Take of Barley one Pugil; Agrimony, Plantane, Wormwood, and the lesser Centaury, of each one handful; Red Roses half a Pugil: boyl them in Forge-water; in the straining, dissolve of Honey of Roses four ounces. Make an Errhine to be often snuffed into the Nostrils.

After it is somewhat clean, you must use this following Decoction:

Take of the Flowers and Rinds of Pomegranates, of each two ounces; Plantane, Horstail, Fleabane, and Rupture-wort, of each one handful; the Roots of Bistort, or Snakeweed, one ounce; Crude Allum one ounce and an half. Make a Decoction.

Allum Water is also good; as also those Remedies which shall after be prescribed for the Cure of *Polypus*, in the following Chapter.

Egyptiacum dissolved in Barley Water is good for the same.

After this make Oyntments which may astringe or bind, cleanse and dry exceedingly, as of *Pompholygos*, with Allum *Chalcitis*, and the Pomegranate Peels.

Or this following:

Take of Oyl of Olive half an ounce; Pomegranate peels and Flowers, of each three drams; Myrrh, Allum, Labdanum, of each two drams; *Chalcitis*, Aloes, Frankincense, of each one dram; Oyl of Roses and Myrtles, of each two ounces; Red Wax as much as is sufficient. Make an Oyntment, which apply to the Ulcer; or dissolve it in Wine, Plantane, Rose or Myrtle Water, which often snuff into the Nose, the mouth being filled with Water.

If these things prevail not, wash the Ulcer with sublimate Water, twice, thrice or four times in a day, for it dryeth very much, and cleanseth without any pain or biting. You must make it thus:

Take of Plantane water four ounces; Crude Sublimate powdered twelve grains: boyl them in a Glass to the Consumption of half, you may encrease or diminish the quantity of the Sublimate as you desire to have it stronger or weaker.

When the Ulcer is well cleansed, you must proceed to the drying of it up, for which purpose the Powder of Red Roses blown into it, is very good.

Rondeletius witnesseth, that there is nothing more efficacious for the drying of Ulcers after sufficient cleansing than a Fumigation, because it entrencheth deep into the parts and drieth, and he saith it must be made of powerful dryers, as of Orpiment and Cinnaber, to which you must add some sweet things, from whence there will arise a fume or smoak to dry the Ulcer; as Mirrh, Frankincense, Mastich, Benjamin, and the like, which may be brought into this form:

Take of the best Labdanum, Hypocistis, Mastich and Mirrh, of each three drams; red Storax, and *Syrax Calamita*, Frankincense bark, Sandarach, and Orpine, of each two drams. Make them up with Turpentine into Troches, with which let the Patient be fumed morning and evening in his Chamber.

It is excellent also to burn Candles of red Wax; for the smoak of them will powerfully dry the Ulcers,

Ulcer in the Nose, especially if the Patient be kept in a close room. And *Rondeletius* saith, That we may perceive that the smoak of a Candle doth affect us by receiving it: for if at any time we sit long in a little Study by Candle light, our Spittle and Snot will appear afterwards black; And by this means he saith he cured an Ulcer, which neither *Italian* nor *French* Chirurgeons could Cure.

Chap. 2. Of Sarcoma, and Polypus.

Sometimes there is not only an Ulcer, but an excrescency of flesh in the Nose, which maketh preternatural Tumors called *Polypus* and *Sarcoma*.

Sarcoma is flesh growing in the Nostrils without any certain shape, but like the proud flesh of an Ulcer.

But *Polypus* is an Excrescency of flesh growing with small roots, and spreading and hanging down to the lower part of the Nose, like the Fish called *Polypus*, from whence it hath the name. *Rhasis* calleth it the Hemorrhoids of the Nose, because like those of the Fundament, This flesh is soft, sometimes white, sometimes red and blew, and if it grow big, it hangeth out of the Nose; but if it grow in the highest part of the Nose, it sometimes hangeth down to the Palate, and stops the common passages, and may easily be seen behind the *Uvula*. In Southernly weather, and at the Full Moon, it is much swelled. But in a Northernly dry time, and at New Moon, it is less. It differs from *Sarcoma* in this; *Sarcoma* groweth chiefly in the lowest part of the Nose, where it is fleshy; but *Polypus* grows in the highest part by the Root of the Nose.

CAUSES. The Cause of both is a gross slimy humor coming from the Brain mixed with Bloud: sometimes with Melancholy, and then you may fear a Cancer. *Sarcoma* often cometh from the superfluous nourishment of the Nose turned into proud flesh, and therefore is more easily cured.

DIAGNOSTICK. The Knowledge of these Diseases is easie by what hath been said, they being apparent to the Eyes.

PROGNOSTICK. The Prognostick is thus made:

A *Sarcoma* is easily cured for the most part; *Polypus* hardly. But that which is soft, white or red, or white and red, is more easily cured; but that which is hard and livid or blew, is difficultly cured, and is like to be a Cancer. Also that *Polypus* which groweth low or in the middle of the Nostril, is more curable than that which is rooted high, because Remedies will not so well reach it.

CURE. Both are cured with the same Medicines, which are so to be ordered that the superfluous flesh may be taken away; but first you must remove the antecedent Cause, that is, the slimy humor which cometh from the Head, which you must do by a drying and attenuating Diet, general purging, by Revulsion, derivation and drying of the head; all which may be done by those Remedies which are prescribed in the cure of the cold distemper of the Brain, being discreetly used; and although many Authors commend the Decoction of Guajacum with a drying Diet, you must take heed lest by so doing you mix the Flegm with hot humors, and so it turn into a Cancer.

After this, you must take off the superfluous flesh with Causticks, or with Sifters made purposely, and then cicatrize. But in the beginning of this disease, it may be cured with only strong driers and astringents; and constantly you must apply such kind of Medicines first, before you come to stronger.

First of all, try the Medicine made of the three sorts of Pomegranats prescribed by *Galen lib. 3. de comp. med. sec. loc. cap. 3.* thus; Take three Pomegranates, one sowr, another sweet, and the other of the middle sort: let them be ripe, bruise them in a Mortar; then take the Juyce, and boyl it to a Lini-ment; dip a Tent therein, and often put it into the Nose. This dryeth and astringeth without sharpness, and consumeth the Excrement.

This following Water doth it more powerfully:

Take of unripe Grapes three pound; Pomegranate peels and flowers, and Sumach, of each two pound; macerate them in Vinegar, and distil them, then put to it Allum one pound; Vitriol three ounces; then distil them altogether again, and touch the part affected often with that water.

If these things will not do, you must use stronger, by putting Sandarach and Orpiment to the aforesaid Water.

Or you may mix the Spirit of Vitriol, or the Water separating Gold, commonly called the second Water, with Plantane Water, and touch the *Polypus* often therewith.

Or with the Mercury Water prescribed in the Cure of an Ulcer in the Nose.

Or you may put in a Tent dipped in the juyce of Cuckoo-pintle roots, and if it be too sharp, mix it with Plantane Water.

Mercury Precipitate which is red, is accounted the best Medicine to consume proud flesh without pain, if it be often washed. This Powder is to be mixed with Honey of Roses, and applied with a Tent. There

There are also Plaisters of the same virtue to consume a *Polypus*, without pain, as this:

Take the *Emplaister de Mucilagibus* half an ounce; the Powder of *Saven* two drams; Incorporate them, and put thereof into the *Nostrils*. Or,

Take of *Verdegreece*, *Orpiment*, *Vitriol*, and *Allum*, of each one ounce and an half; *Antimony* six drams; steep them in *Vinegar*, then beat them fine, then dry them: Thus beaten and steeped eight times let them be steeped in *Plantane-Water*, and then dried. Then take the Oyl of *Roses* four ounces; *Litharge* two ounces. Boyl them, and about the conclusion add two drams of the said Powder. Make a stiff *Plaster* thereof, of which make tents.

In the use of *Cauticks*, first you must observe that before they be applied, you defend the *Nostrils* with the cooling Oyntment of *Galen*, or with *Nutritum*, or *Populeon*, or white of an Egg beaten with Oyl of *Roses*, and the like.

Secondly, lest the *Cauticks* should hurt the *Nostrils* they must be applied through a silver pipe, so that it may compass the *Polypus*, and the Medicines may be conveyed to it without touching the *Nostrils*.

Thirdly, You must observe, that these Medicines are to be used in the decrease of the Moon, for the Tumor then is less, and therefore Medicines may easily be conveyed to the root.

Lastly, If *Polypus* cannot be taken off with Medicines, you must come to Chirurgery, or Manual Operation; which is described in *Paulus Aegineta*, *Cornelius Celsus*, *Jerom*, *Fabricius de Aquapendente*, and other Writers.

Chap. 3. Of the loss of Smelling.

THE Sense of Smelling is hindred and hurt three ways, as other Actions are, that is, by diminishing, abolishing and depraving.

CAUSES. The Causes are the same that diminish and abolish the Smelling, only they differ in degrees, namely, distemper, obstruction and striction.

A cold and moist distemper joyned with *Flegm*, as it can easily make any Sense dull, so doth it especially hinder the Smelling, or abolish it; hence it is that the Smelling is often hurt when there is a *Catarrh*, or a *Coryza*, for cold doth either diminish or abolish the Sense, because it doth dull and weaken the Natural heat, which is the producer of every action.

Obstruction comes also from *Flegm* which fills the sensible Passages, as the *Nostrils*; and also the insensible; as the Pores of the Brain, and the *Processus* of the Temples, called *Mamillares*, so that the scents and smells cannot come to the parts; it may also come of a *Sarcoma*, *Polypus*, or other cause filling and stopping the *Nostrils*.

Striction sometimes may come from *Flegm* gathered in the fore-part of the Brain, and compressing the *Processus Mamillares*, as we said of the dimirishing of sight, from the striction of the Optick Nerves. This striction may also come from the natural shape of the *Nostrils*, when they are so straight that there is no free passage for the Scents.

The Cause of Smelling depraved is a stink always coming to the *Nostrils*, either from an Ulcer there or from stinking *Flegm* in the *Nostrils*, and *Os Ethmoides*: for those things which putrifie either in the very sense of Smelling, or near it in the *Meninges*, are not smelt by the Patient, but by them that stand by; for it is fit that whatsoever toucheth the sense of Smelling, should be brought from other parts. Moreover, a foul stinking Vapor arising from other parts, as the Stomach, Jaws, and Brain be carried to the *Processus Mamillares*, and so infect them, that all the Scents that are brought thither shall smell thereof; as when the Tongue is foul with *Choler*, all things which you tast seem bitter.

DIAGNOSTICK. The Causes are easily known. A cold and moist distemper of the Brain, and slimy *Flegm* coming from the Brain shew an abundance of *Flegm*.

An obstruction of it coming from *Flegm* shall be known by the same signs. If it come from *Sarcoma* or *Polypus*, you may learn the knowledge thereof from their Chapters.

Now the place in which the matter causeth obstruction is contained, is known thus: If it be in the passage of the *Nostrils*, the voice is hindred, because the *Nostrils* conduce to Speech; but the voice is perfect if the matter be in the *Processus Mamillares*, or the fore-part of the Brain.

You may know by the default of the parts, from whence comes the scent which hurts the Instrument of Smelling.

PROGNOSTICK. As to the Prognostick. When the Smelling is newly hurt and coming of a simple *Goryza* or defluxion, is easily cured; but when it is of long continuance, and from a settled distemper, hardly: that which comes from the ill shape of the *Nostrils*, is incurable.

CURE. You must order the Cure diversly according to the diversity of the Causes: If it come

come from a cold Distemper, you must use those Medicines which are prescribed for a cold Catarrh.

For the taking away of the obstruction or stopping of the Nostrils and *Processus Mamillares* by Flegm fastened there; You must use Medicines that purge those parts, as Errhines, Neeplings, and Gargarisms; which are propounded by us in the Cure of the Cold Distemper of the Brain.

If the Nostrils be stoppt by a *Sarcoma* or *Polypus*, you must fetch the Cure from the Precedent Chapter.

Chap. 4. Of the Stinking of the Nostrils.

THe stink of the Nostrils, and of the Breath, do much differ; for that comes only from the Nostrils, and this from divers parts; as from the Stomach, Lungs, Gums, or Jaws being Ulcerated, which you may know by Sense, or by ther proper signs.

CAUSES. But the stink in the Nostrils comes of stinking Vapors either bred in the Nostrils, as in *Ozæna*, *Sarcoma*, or *Polypus*: or sent thither from putrid Humors contained in the fore-part of the Brain, or about the *Processus Mamillares*, or *Os Cribrosum*. Now the Humors do putrifie in the said parts when they are too long retained in them, especially if the Brain be hot and moist; and they are retained either by the stoppage or striction of the parts, as in flat Noses.

DIAGNOSTICK. The Diseases of the Nostrils which produce this Stink are known by their proper signs above mentioned; but if you find none, you must conjecture that the stink comes from a putrid Humor in the Brain, *Processus Mamillares*, or *Os Cribrosum*.

PROGNOSTICK. The Prognostick of the Stink in the Nose coming of an Ulcer, *Polypus* or *Sarcoma*, depends upon their Prognostick: but that which comes from corrupt Humors contained in the fore-part of the Brain, if it be New, is easily cured; if Old, uncurable: especially if it come from a depression and flatness of the Nose.

CURE. The Cure is performed by removing the Causes, and appeasing the Symptoms

The Cure of an Ulcer, *Sarcoma* and *Polypus* is above mentioned: but you must take away the putrid Humor in the Brain, *Processus Mamillares*, or *Os Ethmoides*, by emptying and cleansing means.

And first, You must use universal Evacuations for cleansing the whole Body and the Brain from Flegmy Excrements, by Pills, Apozemes, and the like; to which you may add, if there be great plenty of Humors, a Sweating Diet: afterwards administer Errhines that cleanse and bring forth the Matter conjoyned.

And first of all, Let him morning and evening snuff up White Wine from the palm of his hand in which the lesser Centaury and Calamints have been boyled.

Then let the juyce of Beets extracted with the Water of Marjerom be used in like manner. Or, Take of Cyprus Roots and Calamus Aromaticus, of each half an ounce; Red Roses one Pugil; Myrrh two drams; boyl them in White Wine for an Errhine.

That you may draw down the Flegm more violently, make this:

Take of Flower-de-luce Roots half a dram; white Hellebore and long Pepper, of each half a scruple; Annis-seeds and drid Marjerom powdered, of each one scruple; Euphorbium one grain; Oyl of Spike, Chiry, Violets, of each as much as is sufficient: make a soft Oyntment, in which dip the top of your little finger, and anoint the Nostrils within; or put it with a Tent or Pledget as big as a Pease into the Nostrils.

Lastly, To oppose the Stink, you must snuff up sweet things, as *Galla Moschata* dissolved in sweet Wine, Angelica water, or the like.

Chap. 5. Of Coryza, or Pose.

CAUSES.

Coryza, called in Latine *Gravedo*, is a Catarrh falling from the Brain into the Nose; which Defluxion is of a crude Humor contained in the fore Ventricles of the Brain, and comes for the most part of an External Cause, as from the heat of the Sun, drinking of much Wine, hot Baths, and the like, which do melt and dissolve the thick Flegm gathered in the Brain. It comes also of External Causes which cool the Brain, for then it is squeezed like a sponge, and so it sends down the Humor into the inferior parts: as also by overcooling the Brain there is an encrease of Flegm; for through

want

want of heat the Excrements are not concocted; therefore are they sent forth through the open passages by the Expulsive Faculty.

DIAGNOSTICK. This Disease appears of it self, for the Humor is set in abundance out of the Nose.

PROGNOSTICK. Among all kinds of Catarrhs, that which is through the Nose is most safe and gentle, easily cured if it be new, and comes of an external Cause; but that which is old, and comes from a stubborn distemper of the Brain, is difficult.

As also, when it proceeds of a hot distemper of the Liver, which sometimes causeth sharp and hot Catarrhs; by which the Nose is often ulcerated and ill affected other ways.

CURE. The Cure of this Disease is by curing the Catarrh; for it requires the same Evacuations, Revulsions, and Derivations; except that here you must not use Errhines, lest they should draw the Humor to the part affected; But Gargarisms and Masticatories after Univerfals, are very good.

And besides these, Authors do commend those things which properly do belong to the stopping of a Catarrh; as the vapor of boyled Marjerom; or of Marjerom water taken into the Nose. The fume of Vinegar sprinkled upon a red hot Iron is good for the same; and the better if red Roses have formerly been infused therein. If the Defluxion be very cold, dry Fumigation of Nigella, Frankincense, and the like, thrown upon Embers are very good; for by these the cold Distemper of the Brain is amended, and the superfluous moisture consumed.

Chap. 6. Of Sternutation, or Neezing.

Although Neezing come often to sound men, and useth to be so light an Affect that it deserveth not the name of a Sympton; yet sometimes it is so troublesome, that it requireth a Physitian: As we may read in *Forestus, Ouf. 127. Lib. 10.* in his History of a certain Maid which had so grievous a Fit of Neezing from a sharp salt Catarrh, that she had the Advice of many Physitians. This is confirmed by the old Custom of saying, *God bless you*, to him that neezeth: which some say came from hence, In the time of *Gregory the Great*, there was an ordinary Disease of Neezing, by which the Patients died; albeit some say that Custom is more ancient.

Sternutation is a swift motion of the brain, with which the breath is forced out of the Nose for the throwing forth of things that offend: By the brain we understand not only the substance thereof, but the whole body with its Membranes; especially the fore Membranes, which are especially contracted in this disease, which we may gather from hence, because when we hold up the head we Neeze more easily; for then the matter provoking (which for the most part is windy and tends naturally upwards) is more easily carried to that part.

But the motion which happens in Neezing belongs to the natural Expulsive Faculty of the brain and its Membranes according to *Galen 2. de symp. caus. cap. 1.* where distinguishing Neezing from Trembling and Palpitation, he saith, That Palpitation comes only from a disease: Trembling from Nature and a disease: but Neezing from Nature only.

But *Galen* at the first sight seems to contradict himself; who in *Cap. 4.* of the same book saith That a Cough and Neezing are Symptoms of the Voluntary Faculty, but it is no contradiction: and *Galen* clears himself wisely saying, That in Neezing the Animal Faculty doth concur only secondarily; because in Neezing, breath is sent from the Head, and from the Lungs; yet the Head gives the original of the motion to the Breast; for when it hasteneth to send forth those things that offend in the Nose, it useth both ways at once to send forth breath. One way which it maketh by it self, another way which maketh by the Nerves, descended like long arms into the breast; whence *Galen, Com. Aff. 51. Sect. 7.* teacheth, That Neezing comes with antecedent inspiration, or taking in of breath, when Nature gathers it together to make Sternutation, then the Air which goes forth of the breast, joyned with that which is drawn by the Nose into the brain, doth expel with noise and violence whatsoever offendeth the Membranes of the Nostrils which have most Exquisite Sense.

From this place of *Galen*, we may gather, That the irritation which causeth Sternutation is made chiefly in the Nose; which is confirmed, *Aph. 51. lib. 7.* where he saith, *They only Neeze of those thus affected which have a sharp moisture flowing from the head, as when you put sharp things into the Nose: For as a Cough is a certain natural motion to purge the Arteries which are in the Lungs; so doth Neezing the passages of the Nose.*

But it may be objected, That many standing bare-headed, or otherwise in the cold Air, do presently neeze, that one would think the brain was provoked immediately at that time. We Answer, That cold Air is the Cause of Sternutation not while it doth immediately act upon the brain: but because through compression of the brain and its Membranes, it causeth a sharp matter to descend to the Nostrils; although therefore in this Symptom the Membranes of the brain may be provoked: yet

Neezing is not produced before a sharpness of tickling come to the Membranes of the Nose which are exquisitely sensible.

CAUSES. The Causes of Neezings are known by what hath been said, namely, What things soever can provoke the internal coat of the Nostrils, such are sharp humors or vapors, either coming from the Brain, or sent from the inferior parts; hence men neeze in Feavers, saith *Avicen*, because sharp vapors are sent from the whole body into the Head: or it is caused when sharp things are externally put into the Nose, as sharp Medicines called *Ptarmica* Neezings. These are the external Causes which provoke neezing immediately. There are many other mediate Causes which make internal Causes, or move them, as all alterations of the Air, as abovesaid of cold Air. *Galen* in his Book *de instrum. odoratus*, cap 6. saith, That Neezing is provoked by beholding the Sun, because the Spirits of the Brain like to a vapor, are disscussed by the Sun.

DIAGNOSTICK. The knowledge of this Disease is manifest. The outward Causes appear by the relation of the Patient; but the internal from the signs of the parts affected, by which the matter provoking is sent to the Nostrils, and fore-part of the Brain.

PROGNOSTICK. As to the Prognostick: This Disease is of it self without danger. But in the beginning of a Catarrh or Coryza it is very hurtful, because it keeps the Humor from concoction by its motion. Sometimes in Feavers it is so strong that it takes away all strength, and causeth bleeding at the Nose; sometimes it is no ways hurtful, and in sound men it expelleth the superfluities of the brain; in sick men it is held a good sign. It promiseth help in Feavers, especially in malignant Feavers when all things are desperate. If Neezing happen to a Woman in fits of the Mother, or that hath hard Travel, it is good, *Aph. 35. Sect. 5.* Neezing provoked with Medicines is good against Apoplexies, and other great diseases of the brain. And if being provoked they do not neeze, it is a sign of death; for it signifieth that Nature leaves to act.

In Diseases of the Lungs, especially in a Pleurisie, and *Peripneumonia*, or Inflammation of the Lungs, neezing is evil, *Hip. 2. Progn.* because from the shaking of the brain in neezing, the parts of the Breast are violently pulled and torn; from whence the Inflammation is encreased, and there is no other evacuation of the matter causing the disease; but for the expelling of Flegm contained in the Gristles of the Lungs, which could not be cast out by a Cough. *Galen* sheweth that Neezing is good, *Gal. 2. de symp. caus. cap. 5. & 6.*

CURE. The Cure when it is necessary, or when neezing bringeth inconveniencies, is made first by removing of the external Causes, if it come from them. If it come of an Internal Cause, you must remove that also, by Evacuations, Revellers, Derivers and Discuffers.

If a hot distemper of the brain or any other part send sharp vapors to the Nostrils and inward Meninges, Then you must open a Vein, and then purge, then revel the vapors with Frictions and Ligatures, with Cupping-Glasses to the Shoulders, also use other Revelling, Deriving and discussing Medicines, comb the Head, pull the Ears, rub the Eyes, blow the Nose, and hold the breath.

Lastly, To take away sharpness, and hinder the Nostrils from being provoked, it is good to take the vapors of hot water into the Nose; or to anoint the Nostrils with Oyl of Roses, sweet Almonds, Violets, or with fresh butter; or to snuff up warm Milk into the Nose; by which only Remedy *Forestus* presently cured the Maid mentioned formerly.

CHAP. VII.

Of Bleeding at the Nose, called Hemorrhagia.

THe word *Hemorrhagia*, vulgarly signifieth any Flux of blood coming from any part. But peculiarly, when it is named simply of *Hippocrates*, it signifieth only that Flux which cometh from the Nose, as the first and most evident kind, as *Galen* observed, *Com. 1. in 1. Epid.*

An *Hemorrhagia* of the Nose, is a Symptom in the excretion of those things which are wholly against Nature. For blood coming through the Nose, either comes from the Veins and Arteries into the Brain, or coming from the Palate to the Nostrils, which are like the Hemorrhoid Veins in the Womb and Fundament.

CAUSES. But since every Symptom depends upon a Disease as its immediate Cause, the Cause of this will be either an Organical, or a Common Disease.

The Organical is two-fold: The opening of the Vessels which is called in *Greek* *Anastomosis*; and the thinning, or rarification of them, called *Diapedesis*.

The Common Disease is two-fold: The breaking of the Vessels called *Rexis*; and the Erosion called *Diabrosis*.

The Causes immediately producing those Diseases, are either exceeding in quantity or quality of blood.

Bloud

Bloud offending in quantity can either break the Veins, or open the Orifices of them.

In quality, if it be too hot, or too thin, it will flow out by *Anastomosis*, because heat doth dilate the Orifice, and thinness maketh it flow more easily. Also the same qualities make a *Diapedesis*: for heat maketh the coats of the Vessels thin, and the thinness of the bloud makes it easie to pass through the pores of those coats.

Lastly, The sharpness of the bloud gnaweth the Tunics of the Veins, and ulcerateth them, from whence cometh a *Diabrosis*.

The external Causes also do concur to produce this Disease, either mediately, or immediately.

Immediately, as falls, strokes, wounds, and the like, which break and divide the Veins.

They work mediately, which do encrease, warm and make thin the bloud, as plentiful Diet, Drunkenness, Idleness, too much Exercise, great Noise, Heat, long staying in the Sun, and the like.

DIF. The Differences of *Hæmorrhagia* are these: Some are Critical, some Symptomatical.

Critical *Hæmorrhagia's* are in acute Feavers, by the force of Nature endeavoring to expel the cause of the Disease this way, as especially in those Diseases which are joyned with the Inflammation of some Entrail, especially of the Liver, or of the Spleen, which are many times discharged by these ways; sometimes it comes without a Fever, when Nature dischargeth her self of the superfluous bloud, whence we see many in their youth have an *Hæmorrhagy* by fits, and others bleed other ways.

A Symptomatical *Hæmorrhagy* happeneth chiefly in Chronical Diseases, in which filthy bloud is produced by reason of the debility of the Liver, or some other great distemper, which either flows through those Veins by the weakness of the retentive faculty, or is sent forth by the expulsive, as an unprofitable burden, because impure bloud is not fit to nourish the Body.

DIAG. *Hæmorrhagia* is known of its self; But its Causes are thus distinguished: That which cometh by *Anastomosis* hath this common with that which comes by *Rexin* or rupture, in that in both the bloud floweth plentifully; but in this they are distinguished: If a blow or a fall went before, we should suppose it to be *Rexin*: But when Rupture cometh from *Plethora*, or much bloud, as also a per-tion of the Veins; thus they may be distinguished: When the Vessel is broken, the bloud floweth constantly; when it is opened, at a distance, and by fits only; because the Orifices of the Vessels use to be knit and closed when there is less plenty of the Humor which dilateth flowing thereof; but broken Vessels stand always open, and therefore bloud continually floweth till the solution of continuity be united. Moreover the opening of a Vein is distinguished from the breaking by the substance of the bloud: For if it be thin, it comes from a Vessel opened; if thick, it comes from a broken Vessel. Hence it is that *Hæmorrhagy* comes in young men for the most part by the opening of the Vessels, because their bloud is thin; but in old men from Rupture, because theirs is thick.

If it comes from Erosion of the Veins, there will be signs of *Cacochymia*, or ill juyce in the body of an Ulcer, and matter sometimes comes forth, or at least a salt Catarrh hath gone before. If it comes by *Diapedesis*, or Rarification, the bloud is thin and little.

The Causes antecedent and external, are easily distinguished; for if it come from plenty of bloud, there is a red face and large veins: as also the Diet hath been large and hot, or there hath been some external cause which hath melted and made thin the bloud, and these especially befall them who have very hot Livers.

If it come from evil Juyce, it is known by its proper signs which declare whether Choler or Melancholy doth abound: Moreover, the bloud will appear corrupt either from the Nose, or taken from the Arm.

If it come from the weakness of the retentive faculty, the face will be pale, and the whole body weak; as also some Disease hath gone before, by which the Liver was first weakned, and then very little bloud comes forth, and by degrees.

If bloud comes immediately from the Veins of the Nostrils, it is easily stoppt with astringent Medicines applied thereto, and there will be no pain in the Head. Contrarywise, If it come from the Brain, there is some pain in some part of the Head, the flux is hardly stopped, and things put up into the Nose do no good. Sometimes bloud comes from other parts, as the Liver, Spleen, Womb whose signs are the pains and extensions in those parts.

If bloud flows from an Artery, it comes with force, it is hot, pure, fresh and clear; but when it comes from a Vein, it is dark, red, thick, sometimes foul, and comes forth with small force.

PROGNOSTICK. The Prognostick of *Hæmorrhagy* coming, especially if it be Critical, is taken from the hurt actions, when the excrements and qualities are changed: as watchings, and streams of red things, a great pain of the head and neck, heaviness in the temples, and great beating of those Arteries, ringing and noise in the Ears, dulness of the Eyes, with redness thereof and the whole face, hating of light, involuntary tears, itching of the Nose, a drop of bloud upon the day that declares the Crisis, difficulty of breathing, an extension of the Hypochondria without pain.

The Reason of which signs is: When the bloud begins to be carried to the Head, it begets in the Head Phantasms of red things both waking and sleeping: as it happened to a young Roman which

Galen mentioned, *lib. de prasag. ad Posthumum, cap. 13.* he had an acute Disease, and thought he saw a red Serpent about the Chamber Seeling, at which being frighted, he leaped out of his bed: Hence Galen foretold an Hemorrhagy at hand, and hindered the letting of blood which other Physitians had prescribed.

The pain of the Head and Neck comes from the translation of the blood into the superior parts which by distending and pulling the Membranes causeth pain.

The Arteries in the Temples beat by reason of their compression which is caused by the fulness of the Veins.

The noise in the Ears comes from vapors flying in abundance into the Head.

The sight is dim because many thick vapors sent up do stop the passages. Hence it is that when passage is denied to the Animal Spirits, the sight is dim.

The things flying before the Eyes called *Marmariges*, are nothing but thin bodies divided, and of divers colours contained between the *Cornea* and the *CrySTALLINE*, coming from Vapors ascending: which though they be inward, yet through deception of the sight they seem to be outward: because the Eye being used to see External things, supposeth whatsoever is within, to be without.

The Redness of the Face and Eyes comes from blood in those parts encreased: there is a detestation of light, because the Eyes being distended with plenty of humors, will be more distended with light, because it disperseth the Spirits: Hence the Eye is dilated, which causeth pain, which that the Patient may avoid, he avoideth the light.

The involuntary Tears come from the repletion of the Eyes, and the parts adjacent, which being too much Distended to press the Glandules that contain the moisture of which tears are made.

The Itching of the Nostrils comes from vapors ascending upwards.

Drops of blood upon the day of demonstration, namely, the fourth or eleventh, sheweth that there will be an Hemorrhagy upon the day of judgment, namely, the seventh or the fourteenth, because in those days Nature begins to transfer the Humors to those parts.

The breathing is difficult, because while the blood flyeth upward it compresseth the *Diaphragma*.

Lastly, There is a stretching of the *Hypochondria*, because the blood begins to move in its fountain, and in the roots of veins: but this distension is not constant, and is without pain, as the difficulty of breathing is: for if they should last long and increase they would be signs of the Liver inflamed.

PROGNOSTICK. The Prognostick of a present Bleeding at Nose, is thus:

If blood flow moderately out of the Nose in the day of judgment it is a sign of Health; although Galen doth confirm this, yet *Fernelius* denieth it, saying, *lib. 2. de sanguinis miss. cap. 1.* That no discharge of blood, although critical, is a sign of health; for though it ease madnets, watchings, head-ach, and other Symptomes, yet it scarce ever cureth the Disease, because the purer portion of blood is sent forth, and the impure remaineth: and this is thus proved: because the blood coming from the Nose is of a laudable colour and substance, when blood at the same time taken out of a Vein in the Arm or elsewhere, shall appear to be corrupt.

This Doctrine of *Fernelius* is very plausible but altogether to be received: It is true, That in acute Diseases, especially malignant Feavers, an Hemorrhagy doth not always Cure the Disease: as Sweat is not always a sign of Health in those Diseases, because these Evacuations being forced by Nature before the time, come for the most part from the malice of the matter of the Disease: Yet sometimes acute Diseases are cured by Hemorrhagia, as Galen taught in his Third Book *de cris. cap. ult.* and elsewhere. And the reason why blood out of the Nostrils is always pure, is because it comes by drops, and therefore would be so quickly cold that the impure parts could not be separated; and the purer parts mixed with the rest would make the whole mais red. But blood taken out of the arm, because it comes flowing freely, keeps the colour long in the Vessel from which the impure parts are separated, so that the thick and droffie part goes to the bottom, but the choler and flegm which is more altered and impure swims at the top, and so the blood seems impure and fardid.

On the other side, If blood should drop from the vein it would appear pure, because it presently goes together before the *Heterogeneal* parts can be divided by the heat; nay, if blood flow freely and be caught in a large vessel, it will appear pure because it is quickly cold.

Hemorrhagies that are very great are the worst, for they tend to a Convulsion: For sometimes it comes to pals that Nature being burdened with much blood, and stirred up to throw it forth, cannot observe a mean, and makes an over Crisis, which Physitians must stop.

An Hemorrhagy in the beginning of the Disease is evil because it is Symptomatical, and comes from the malignity of the matter of the Disease, Nature being stirred up to send it forth before her time.

An Hæmorrhagy which is on the same side with the part affected is good, but otherwise it is evil; so in the Inflammation of the Liver when blown forth out of the right Nostril, it is good, but out of the left bad.

Contrarily, When the Spleen is inflamed, if blood come forth of the left Nostril, it is good; but out of the right bad: because all good evacuation ought to be *Kata hixin*, in a right line.

A few drops coming from the Nose are evil: for it signifies that weakness of nature, and the malignity of the Disease.

For all Excretions are condemned by *Hippocrates*, in acute diseases if they be begun only and not finished, because there is greater security in those Feavers in which nature putteth forth nothing, than in which she puts forth little to no profit.

For then it is to be supposed that she tends to concoction; but if a drop appear, it is a sign that nature was stirred up before her time.

But a drop coming upon the day of Indication, and signs of Concoction also appearing, it signifies that there will be an Hemorrhagy upon that Critical day.

Hæmorrhagies continuing long foreshew the weakness of the Liver, and the coldness also, and an evil habit with a Drop sic to be at hand.

To them that have bled at the nose in Quartane Feavers, it is evil, *Hippocrates Aph. 87. Sect. 7.* For as *Avicen* saith bleeding in Melancholy and Phlegmatick people is hurtful, because it cooleth too much.

To them who in Feavers have lost much blood at the Nose, or any part, when they amend, their belly will be loose, *Hip. Aph. 27. Sect. 4.* For as *Galen* saith in *Com.* when the natural heat is debilitated by bleeding, neither can their meat be well concocted, nor turned into blood, nor distributed into the body: and therefore it is likely they should be loose bellied, until Nature recover her strength.

CURE. In the Cure of *Hæmorrhagia* first observe whether it be Critical or Symptomatical: For a Critical is not to be stopped, but you must suffer it to flow in a great quantity: For *Avicen* saith That blood hath come from the Nose to the quantity of four pints by a Crisis without any decay of strength. And this seems to be taken out of *Galen* who in his Book *de Progn. ad Posthum. cap. 13.* suffered a young *Roman* to bleed four pints and an half, before he would stop it.

Which as it may fall out well in very Plethorick people, so in others it may endanger life; and it is certain that a Critical Hæmorrhagy, although it is the work of nature, yet sometimes is beyond measure; for Nature being burdened with blood, and stirred up to expel it, sometimes cannot keep within measure, but maketh too great an Evacuation: whence we ought to fear a great dejection of strength, and death, and then it is stopt, as often as any notable infirmity followeth.

So also that blood which customarily floweth without a Feaver is not to be stopped, but to be left to Nature ordering, except it be immoderate: for many by such bleeding have been free from great Diseases, into which after, upon suppression thereof they have fallen.

But a Symptomatical Hæmorrhagy is to be stopt, which may be done by revulsion of the blood from the Nose, and by repelling to the parts adjacent, by stopping of the Veins which are open, by staying the disorderly motion of the blood, and by evacuating the sharp and thin humors mixed with the blood, which are the chief Cause of Hæmorrhagy, by correcting them, and hindring their encrease, and by strengthening the retentive faculty of the Liver and Veins: All which may be done with the Remedies following.

And first, blood-letting is the chief thing for Revulsion, which must be done quickly before the Patient grow weak, and that out of the Vein on the same side the Nostril is, out of which it cometh: on the right side, if from the right Nostril: on the left, if from the left: And *Galen lib. de sangn. miss. cap. 11.* confirmeth the efficacy of this Remedy, affirming that he hath presently stopped violent bleedings at the Nose only thereby. But it must be taken in a large quantity if the Patient be strong, and from a large orifice: Although most of the Ancient and Modern Physitians think otherwise: and say that blood must be let out at a small orifice by little and little often, by which means they say the Revulsion will be better. But that you may make the blood move the contrary way, you must have a stronger motion for hinderance of a weaker: therefore by how much the larger the orifice, and the more violent the motion is of the blood from the Vein opened, by so much the sooner will the blood at the Nose be stopped: But if by once letting blood, and applying other Remedies, the Hæmorrhagy be not stopt, you must repeat blood-letting according to the strength of the Patient. You may also open the Vein in the Foot, that a Revulsion may be made at a great distance, which also availeth, much, as *Avicen, Paul* and *Trallian* say.

After Blood-letting, as also before, rub and bind the extreame parts, and clap great Cupping-glasses to the Hypochondria: to the right side, if the right Nostril: to the left, if the left do bleed: For *Galen* stopt an Hæmorrhagy in a young *Roman*, by a Cupping-glass to the Hypochondrion without blood-letting, as he saith *lib. ad Posthum. cap. 13.*

Notwithstanding the applying of Cupping-glasses to the Hypochondria is not altogether safe, for the blood then being hot may be drawn in too great a measure into the Liver, or the Spleen, and inflame them. Of which there is an example in *Fabricius Hildanus*, *Obs.* 47. *Cent.* 2. of a Courtier who bled violently at the Nose; to whom, with other Remedies, there were great Cupping-glasses applied to his Liver: The blood stopt, but there followed a great Inflammation of the Liver. Therefore you must be wary in applying Cupping-glasses to the Hypochondria, and never use them, but when all other Remedies fail, and after divers Phlebotomies: For after the plenty of blood is taken out of the Veins, there is less danger of attracting too much blood to the Liver to inflame it; but which way soever they are applied, they draw blood and Spirits to those parts whereby their heat is increased, which seems to be contrary to the opinion of *Hippocrates*, *Aph.* 13. *Sect.* 5. where he saith, That in those parts from whence blood cometh, or is about to come, you must use cold things. The Interpreters say, that cold things are to be applied to those parts from whence the motion of the blood beginneth, as the Liver and Spleen.

Forestus commendeth Cupping-glasses to the Feet, by Experience, *Obs.* 14. *Lib.* 13. in these words: *When a Gentleman exceedingly bled at the Nose, and no Remedies would help him, having lost at least twelve pound of blood from both Nostrils; I was sent for, and after he had bled a whole day, I commanded two Cupping-glasses without Scarrification to be applied, one to his Liver, the other to the Spleen, and the blood seemed to stay a little; but after my departure, when his Wife perceived him to bleed again out of both Nostrils, and that his cupping had done no good, she commanded that the cupping should be set upon his feet, and the blood wonderfully stopped beyond expectation: But after the Cupping-glasses had been a while fixed, the Patient fell into a swoond; and therefore they took them off, and threw water in his face, by which he recovered; and then being refreshed with the scent of Wine, he came to himself, and was restored to his former health from his bleeding, as it were by a Miracle or Inchantment beyond all expectation.*

Moreover, Cupping-glasses applied to the Shoulders both dry, and with scarrification do draw back the blood from the Nose. But they be not always safe, for they may attract blood from the inferior parts, and so give occasion to a further bleeding.

Some Practitioners do apply Cupping-glasses to the Biceps Muscles of the Arms, by which they make Revulsion.

Crato in his Counsels, reckoneth the bending of the little finger on the same side among the revulsives: for by the great pain that will be caused thereby, there will be a drawing back of the blood.

But the blood and Spirits are drawn inwardly more strongly by swooning, whereby we saw a Bishop in the year 1629 cured of a violent Hæmorrhagy; for being in a malignant Feaver with the inflammation of the right Kidney, which after in the twenty seventh day of his sickness turned to an Imposthume, he was taken with so violent a bleeding, that in four hours he lost two pounds, and still bleeding and strength decaying, we bethought how we should stop it; and after the use of many remedies to no purpose, the Patient desired to ease his Belly, and could not be compelled to do it in his bed; we foretold him, that if he arose, he being very weak would faint away, but that would be good to stay his bleeding: and so it came to pass, for after he arose he swooned; from which with a little Wine he was recovered, throwing also Water in his face; after that he had a large stool, was brought to his bed, and bled with less violence; then giving a dram and an half of *Lapis Prunella* in cold Water, presently the blood stanch'd when the same and other Medicines could not formerly do it. Although fainting be not vulgarly accounted a Remedy against bleeding at the Nose, yet *Hip.* *Lib.* 3. *Epid.* *Sect.* 7. saith thus; *These things stop the bleeding of the Veins, swooning, the alteration of the posture or figure of the Body, interception, a Tent, apposition, and deligation or binding.* *Galen* in 5. meth. cap. 5. teacheth the same, in these words: *Moreover Blood is stanch'd both by fainting, and by revulsion, and derivation to the parts adjoining, and by cooling of the whole Body, and especially the part afflicted; But you must observe that fainting doth not only profit when the blood floweth from the Veins which are terminated in the superficies of the body, which Hippocrates also hints at, when he prescribeth tents, bandage, and the like.* For when blood cometh from the internal parts, as in an *Hæmoptosis*, or spitting of blood, immoderate flux of the terms, or internal wounds, then fainting will increase the bleeding, the heat being thereby drawn into those parts from whence the blood cometh.

Zacutus Lusitanus *Lib.* 1. *Praxis admiranda* *Obs.* 66. reports that he cured a desperate Hæmorrhagy, which would yield to no other Medicines, by an actual Cautery to the soles of both feet; which Remedy he saith had like success in a great bleeding at the mouth coming from the opening of the Vein called *Ranuncula* under the tongue by corrosion from a sharp Catarrh; and when the Blood had flowen two days to the quantity of twenty pounds, and many Astringents and Emplasters had been used, as also Revulsives and thickning Medicines, with Narcoticks or Stupefactive, by a Cautery in the soal of the foot it was stanch'd.

If still he bleed after all the aforesaid Revulsions have been tried, you must come to repelling Medicines

dicines, such as are vulgarly called *Anacolle mata*, things to be applied to the Forehead and Temples, which are thus made :

Take of Bole-Armeniack, Terra Sigillata, Sanguis Draconis, Frankincense, Mastick and Aloes, of each one dram ; Bran and the Hair of an Hare cut small, of each half a dram ; one white of an Egg, the Juyc of Plantane, and Nightshade, of each as much as is sufficient to make a Cataplasme for the Forehead and the Temples.

In extremity you may quickly make a Cataplasme of Bole-Armeniack only, mixed with the white of an Egg and Vinegar for the same parts.

The most excellent is made of Time and Vinegar, and applied to the Temples and the Forehead as thick as two fingers ; and if the application do it not, let it be repeated, and it will certainly cure.

Amatus Lusitanus commends a Cap made with the aforesaid Powders, mixed with Vinegar and Water, laid upon the Head being shaven ; which you may try in great extremity.

Also you may make a Fomentation of very cold Water, or Water and Vinegar to the Temples and Forehead, changing your cloaths as they grow hot.

Or you may make a Fomentation of the Juyc of Plantane, Knot-grass, Horf-tail, Shepherds-purse, and the like, with a little Vinegar to make it pierce. Where mark, That the Head is not to be washed with cold Water, nor repelling Medicines to be laid to the Forehead, before you have made sufficient Revulsions ; otherwise the blood being struck in with cooling will fill the Veins above, as *Galen* sheweth, *s. Meth. cap. 6.* and so the Flux will be encreased, by the heat encreased through *Antiperistasis*, by which the motion and force of the blood is encreased ; or if the blood be stopt, there will follow a Convulsion, Apoplexy, short and difficult breathing, called *Dyspnea*, or the like.

Vinegar alone will stop blood if the Forehead be fomented therewith in a Spunge.

Or if you dip a Spunge in Vinegar, and put into the Nose.

To throw cold Water in the Face doth not only drive back the blood, but also draweth inward by fear, if done on a sudden, and unawares, As a Syncope or Swooning, as we said before, stancheth blood by the retraction of it inward ; by the same reason doth fear also. A great quantity, namely, two or three Glasses must be cast into the face divers times in a short time.

Ordinarily they use to hinder the ascent of the blood with fomenting of the Neck with a cloth dipped in cold Vinegar and bound about the Neck, changed often before it turn warm.

Vinegar and Water held in the mouth, doth drive the blood down, and keeps the blood from falling into the Throat.

Also Vinegar put into the Ear next to the Nostril bleeding, is good to close the Vein.

A Bean or piece of Mony bound to the root of the Nostril, between the Eyebrows, stoppeth the Flux.

Also you must observe if the Veins or Arteries in the Forehead or Temples do swell, for then you must bind them down with Mony, or a dry Bean slit in length, and this is a special Remedy. And for the better Compression, you must lay a Pledget dipt in the white of an Egg beaten with Time, upon the Bean or Money.

The fume of Vinegar sprinkled upon a hot Iron, taken into the Nostrils, will close the opened Veins.

As also Vinegar and Water often snuffed up.

Besides those things which repel, we must use things that close and glutinate the Veins. For which end, many Remedies may be put into the Nose.

Galen lib. de paratu facilibus, cap. 13. used Frankincense and Aloes powdered, with the white of an Egg, and the hairs of an Hare, upon lint.

Or you may make a tent thus :

Take of Frankincense, Aloes, Dragons-bloud, Bran, Cobwebs, and the hair of an Hare cut small, of each half a dram, made up in a Tent with Juyc of Plantane.

The same Powders may be blown into the Nose. For which purpose also great Practitioners do commend the Powder of Egg-shells and burnt Paper. But you must remember besides the use of these Powders, at the same time to fill the mouth with cold Water lest the Medicine get into the mouth.

The Cotton of an Ink-horn squeezed a little, and made into a Tent, doth powerfully stop.

As also laid and bound to the Forehead.

If it yet continue, you must come to Escharoticks, which by burning the mouths of the Veins, produce a Scab, and so stay the blood. But these must be used warily, for when the Eschar falls off, they will bleed again.

Burnt Vitriol is the best, which besides the Escharotick quality, is good to stanch blood.

If you will make it gentle, you must mix other Medicines thus.

Take

Take of Galls half a pound; Alum a quarter of a pound; Calcine them, and blow the Powder into the Nose. Or,

Take of Bole-Armeniack, Dragons Bloud, Frankincense, Aloes, Time, burnt Vitriol, Sarcocol, and Mastich, of each one dram. Make a fine Powder.

White Vitriol is more gentle than burnt Vitriol, and is not very Escharotick; yet it stays bleeding very powerfully, by astringing the Orifice of the Veins, if it be put into the Nose with a Tent.

You may make Remedies to stop blood, by restraining its motion by cooling, thickning, and coagulating thus:

Take of Sal Prunelle one dram; Troches of Amber half a dram; Bloud-stone and red Coral prepared, of each one scruple; the syrup of dried Roses one ounce; Plantane Water three ounces. Make a Julep to be taken twice or thrice in a day.

Take of Conserve of Roses and Quinces, of each one ounce; Troches of Spodium, or Ivory and Terra Sigillata, of each one dram; Coral prepared, and burnt Harts-horn, of each one scruple. Make an Opiat, of which let him take the quantity of a Chestnut twice or thrice in a day.

Vinegar and Water called Oxycrate, drunk plentifully stays an Hæmorrhagy.

Outwardly to cool the bloud, and to hinder its motion, you must apply cold Water, or Water and Vinegar to divers parts, pouring it upon the Arms, and putting the feet therein, and applying to the Cods, as also to the Back, because the *Vena Cava* runs that way, and so the bloud will be cooled when it is exceeding hot, when the aforesaid Medicines cannot remedy, some wet the whole body with Vinegar and Water, or put him into cold water which is not without danger, when the Patient is weak.

It is excellent to temper the heat of the bloud, to lay Epithems to the Liver and Spleen made of warm Vinegar and Water.

Finally, in the most desperate Case, when no Medicines will prevail, you must use Narcoticks, or Stupefactive, which presently stop all Fluxes and Evacuations and motion of Humors: and among the rest, three or four grains of Laudanum is the best. But take heed that you give it not to the Patient being very weak, for it is to be feared that the native heat being very little, will be thereby quite extinguished. One ounce of the Syrup of Poppies given in an astringent Julep at night will do the same.

At length you must come to proper Remedies which by an occult secret quality stop bleeding. The most usual and best are these:

The Juyce of Nettles is extolled for stopping any bloud, of what part soever, and therefore it is both given inwardly to four ounces once or twice, as also snuff into the Nose, and applied to the Forehead and Temples made like a Cataplasm with Bran, or the whole Nettle beaten. Some say that the Root held in the mouth will do the same.

Hogs Dung is one of the best Specificall Medicines, if it be applied hot to the Forehead and Temples, or smelt unto, or put dry into the Nose, of which this is a form.

Take of Hogs Dung dried three drams: the Powder of Roses to take away the scent of it, half a dram. Mix them with juyce of Plantane, and dip a Tent therein to be thrust into the Nose.

Asses Dung used thus is also commended. And Rodericus a Castro lib. 1. de morbis mulierum. cap. 5. saith. That a Physitian of seventy years old given to violent bleeding, carried always Asses Dung not quite dry in a box about him, than which he confessed he never knew a better Medicine; especially if when it was dry he mixed it with Juyce of a Nettle, or if wet he put it alone into his Nose.

Zacutus Lusitanus, lib. ult. praxis Histor. cap. 2. saith, That he cured one of Seventeen years of age that was weak and lean, after he had lost seventeen ounces of bloud and used many Medicines, only with this, He gave him the Dung of an Ass very finely powdered in all his Drink, and Broth, he made Tablets of the same with Sugar, and gave them with stealed water, by which means only the Patient recovered in seven days space.

The bloud it self which comes out of the Nose, is not only vulgarly commended, but by the learned to stop an Hæmorrhagy by a specificall quality: they fry it in a Pan and give it the Patient to eat, he not knowing of it.

As also they Calcine it in an Earthen Pot, and mix it with the mentioned Astringents.

Others commend the Powder of Snails burnt with their Shells: and others put the Powder of Frogs calcined into the Nose.

Pereda speaks of an old Woman of Montpelior, that she was Cured of a Flux at the Nose of three days continuance, by only Mints put into the Nose.

Among other Remedies this is excellent and usual, The fine Powder of Spiknard taken the quantity of a dram in Broth, Plantane-water, or other Liquor, not only by a specificall force, but also by strengthening the Liver it stops bleeding.

Finkius witnesseth, that a dried Toad powdered and put in a fire-red Sattler under the Armpits or held in the hand till it grow warm, will stanch blood presently: And that the blood will be immediately congealed as if it apprehended some terrible thing.

Others hang a Toad in the Air while all the flesh is consumed, and keep the bare thigh bone which they put into the Nose, and then it stops bleeding presently.

While you use the aforesaid Remedies, you must think of the taking away of the Cause, which usually is a thin watry humor of Choler which abounds in the blood, and makes it move disorderly, and provoketh nature to throw it forth: whence it comes to pals, that when it is purged away and the blood cleansed, that then Nature embraceth blood most familiarly as its chief Friend, and the treasure of Life, and will not labour to cast it forth.

Therefore you must purge twice or thrice if need be with binding and cooling Medicines, thus made:

Take of Tamarinds half an ounce; Plantane Leaves one handful: boyl them to four ounces, being strained infuse of the best Rhubarb one dram; yellow Myrobalans half a dram, Spicknard seven grains; strain it, and dissolve therein one ounce of Syrup of Roses, and add one scruple of the Powder of Rhubarb. Make a Potion.

In an old Disease that returneth often, such a Purge repeated once every Week, is excellent.

And after every Evacuation, Astringent Juleps, or Opiates, that are above mentioned: you may make Juleps thus;

Take of the Roots of Snakeweed, and the greater Comfrey, of each one ounce; Plantane, Knotgrass, Rupture-wort, and Fumitory, of each one handful; of the four great cold seeds, of each one dram; boyl them to a pint, and dissolve in the strained Liquor, of white Sugar three ounces; Make a Julep for three mornings draughts.

Instead of Juleps or Opiates, or after they have been used awhile; you may give a Syrup made of the Juyce of Nettles, and an equal proportion of Sugar, two spoonfuls at a time every morning.

Nor is it sufficient to take away the present Cause of the Hemorrhagy, namely, To evacuate the Peccant Humor, but you must see that it return not again.

The Bowels are to be strengthened, and their Distempers amended; especially the Liver in which those Humors use to breed.

And the Juleps formerly prescribed will do this, as also the Tincture of Roses to cool the Liver and strengthen it, is very good.

Outwardly you may apply Epithems made thus:

Take of the Water of Roses, Plantane, Purslain, Sorrel and Succory, of each four ounces; the seeds of Purslain, Sorrel and Succory, of each one dram; the Troches of Camphire and yellow Saunders, of each two drams; Vinegar two ounces; Make an Epithem.

To these you may add all the Remedies which are prescribed for the Cure of a hot Liver.

Sometimes the hot Distemper of the Spleen and Reins is the Cause of this Disease; and then you must apply cooling Medicines to those parts also.

To these you must joyn a good order of Diet, which from the beginning of the Cure must be diligently observed.

And therefore, first the Air where the Patient is, must be cool; and if it be Summer time let it be altered, by sprinkling the floor with Vinegar and Rose-water, and strowing of the Leaves of the Vine, Willow, or Water-Lillies, or the like.

Let his Meat be thickning, of little nourishment, as Calves-feet, Sheep and Goats-feet, and the like; Rice, new fat Cheese, hard Eggs, and the like.

Let him eat Fruits that are somewhat sharp, binding and bitter; as Pears, Quinces, Medlers, Services, and Sawces of the Juyce of Pomegranates, Lemmons, Orenge, Sorrel; some commend the use of Lentils or Pease boyled in Vinegar, because they have virtue to thicken, astringe, and allay the Acrimony of the blood.

Let the Patient abstain, especially in the beginning of the Disease while his strength is good, from Wine, Flesh, and Rear Eggs, which breed much and thin blood: you must give him moist Meats and Suppings in the time of his bleeding; as cooling Broths made of Barley, Oats and Rice with Water, for chewing doth provoke bleeding; if he be weak you may give him Flesh-broth and Panadoes, in which there is Starch dissolved, which is made without Chalk or Gum Arabick.

Let his Drink be steeld Water, and let all his Meat be boyled in the same, which will be of more force if Nettle Roots be first boyled therein.

Command him to rest, so that he neither Walk nor Cough, nor speak loud, or at all, for the motion of the Tongue and Jaws provoke bleeding.

Let his Head be covered, and let him not see the blood, for thereby the imagination being moved he will bleed faster.

Let him sleep, for long Watchings make the blood more sharp, Cholerick and thin, but sleep doth contemperate the Humors, and restrain the motion thereof.

Lastly, Let him avoid the Passions of the Mind, which cause the blood to ascend, as Anger, Laughing, and Joy.

The End of the Fourth Book.

THE



THE
FIFTH BOOK
OF THE
PRACTICE
OF
PHYSICK.

Of the Diseases of the Tongue.

The Preface.

THe Tongue is the Instrument both of Speech and Tasting, but both those Actions are hindered by divers Tumors which grow thereabout: And especially every Action is diminished, abolished or depraved by its peculiar Cause. That all these may be severally described, this Fifth Book hath four Chapters, Of which, the first is of the Inflammation, and other Tumors of the Tongue. The Second is of the Ranula under the Tongue, which though it belong to the kinds of Tumors, yet it is handled by it self, because it requires a different Cure from all the rest. The Third is of the Taste hurt. The Fourth of the Palsy of the Tongue, and other hinderances of its Motions.

CHAP. I.

*Of the Inflammation of the Tongue, and other
Tumors of the same.*

AS all the parts of the Body, and especially the fleshy parts, use to be inflamed; so also the Tongue by blood flowing into it; which blood as it is either pure, cholerick, flegmatick, or Melancholick, produceth either a true Phlegmon, or a Phlegmon Erisipelous, œdematous, or schirrous, which sometimes comes to suppuration: of which there is an Example in *Forestus, Obs. 24. Lib. 14.* of a Brewer which had a great Inflammation of his Tongue that brake, which came to suppuration.

Also the Tongue often suffers a soft and loose tumor, which is pure œdematous, by the falling of Rheum from the Head; of which *Galen* propounds an Example, *Lib. 14. Meth. cap. 8.* in a certain man whose Tongue was so swoln, that he could not contain it in his mouth.

Sometimes the Tongue grows very great, which cannot be accounted any kind of Tumor; as *Galen* teacheth, *lib. de diff. morb. cap. 9.* That he saw a tongue which grew exceeding great without any

sense of pain, neither would it pit or yield to the finger, but it was a bare encrease of quantity in the tongue, and the substance was no way hurt, which came by too much nourishment brought and converted into the substance of it.

And *Claudius Consult.* 9. gives an example of this in a maid of twelve years old, whose tongue grew to a great bigness, and the Tumor could neither be called an Oedema, nor a Schirrus, because it was without pain; neither could it yield to the hand pressing of it, nor take an impression or pit, nor was it without Natural Sense.

CAUSES. The Original of it was a forceable breach of the bridle of the tongue, by the pain whereof blood was attracted to the part; which being sent thither continually caused this largeness. But in this case *Claudius* observeth that it is bigger at night, and less in the morning, and always livid or blewish: The reason whereof he saith is, because in the Concoction and assimilation of the blood (which is flegmy otherwise, such as is bred in children by reason of their moist Nature and intemperance many vapors are raised, especially at night, when the heat is drawn in and contracted, by which the Tumor is enlarged; but in the day they are dissolved by the motion and heat of the tongue, by which means it becomes less.

The reason of the blewness is the Air, to which it always is open; for by the coldness of the Air, the blood which cometh to the superficies of the tongue, before it comes to be like in the substance, doth congeal somewhat, and so turns livid. For *Galen* saith that blood waxeth black with cold, 3. *de symp. caus. cap.* 2. which yet is not so in other parts, because there is no superfluity sent to them, but as much as is sufficient for nourishment.

DIAGNOSTICK. The knowledge of these Tumors is not difficult, because the preternatural greatness of them is visible.

DIFFERENCES. But the Differences of these Tumors are these; If there be any inflammation, then there is pain, heat, and redness also in the tongue, wherewith also the face is somewhat infected; but if the Tumor come originally from flegm, the tongue is white, and there is much spittle, whose taste is sweet or without taste. If there be only a bare increase in the tongue, there are no signs of other Tumors or Vicious Humors.

PROGNOSTICK. As to the Prognostick: Tumors in the tongue for the most part do not endanger the life unless they grow so big that they cause suffocation, or come from a malignant melancholick humor; from whence they prove Cancers, which is known by their hardness, blewness and pricking pain.

CURE. You must begin the Cure of the Inflammation of the tongue with Repulsive and Repealing Remedies, and therefore first, after you have given a laxative Clyster, open a Vein, and take away as much blood as the Patients strength will permit.

Then apply Cupping-glasses, with scarification to the Shoulders.

After that use cooling and repelling Gargarisms, and among the rest the Juice of Lettuce is commended of *Galen* to wash the tongue with often, *Meth.* 14. *Cap.* 8.

Or you may make one more compounded of the Decoction of Plantane, Nightshade, Pease husked and Pomegranate Peels, adding some Syrup of dried Roses, or *Diamoron* that is, Syrup of Mulberries.

After bleeding, appoint a Purge made of things to purge Choler and Flegm, because Flegm from the Head doth peculiarly concur to the production of those Tumors.

After the flux is stopped, you must labour to derive the humor fixed to the part by Evacuations, Revulsives and Repercussives; and to this end open the vein under the tongue, which if you cannot reach by reason of the largeness of the tongue, you must apply a Cupping-glass with Scarification under the Chin.

If it tend to suppuration, it must be furthered with a Fig slit in the midst, often applied, or with a Gargarism of the Decoction of Barley, Mallows, Violets, Figs, Raisins, Quince-seeds, and Fœnugreek seeds, with a little Syrup of Violets and Jujubes.

Suppuration being made, if the Imposthume will not open of it self, make incision; then cleanse it with the decoction of Barley, Agrimony and Plantane with Honey of Roses.

But a soft and lax humor coming of flegm, is cured first by a Revulsion with Phlebotomy if the Patient abound in Blood, then give him a strong Purge, such as *Pilula Cochiae minores*, made of Aloes Scammony, and Coloquintida, which were happily used by *Galen* to one of sixty years old 1. *Meth.* above mentioned. But if he cannot swallow Pills, make him a Medicine of Senna, Agarick, Diaphœnicon and the like.

After these Evacuations you must first apply cooling and repelling Medicines, as we shewed in Inflammation. And *Galen* in the place quoted, cured a Patient of sixty years, only by washing with the Juice of Lettuce after purging.

Moreover, You may with good success wash the mouth with, juice of Lemmons, Pomegranates Sorrel and Plantane, because they do not only repel with their coldness, but also with their sharpness

ness draw forth the moisture that is fastned in the tongue.

Also the tongue may be embrochated with Oxymel simple, unto which you may add a little Ginger, Sal gem or Sal-armoniack.

You may also wash the Mouth with the Decoction of Origan and Pellitory, with Hydromel, or Honey and Water.

Zacutus Lusitanus, lib. 1. in his History Of the chief Physicians, Obs. 47. in a desperate case, when the Tongue grew to a wonderful bigness, so that he feared Suffocation, after emptying and revelling Medicines used in vain, applied four Horse-Leeches to the tongue, and in a short time, after plentiful bleeding, it became thin and small, and the Patient escaped.

The same *Zacutus* Obs. 48. of the same Book, says that he cured a child of ten years old, who had a tongue swollen by a defluxion, so big that it could not be contained in his mouth (after Revulsions by bleeding, Cupping glasses with Scarrification, and sharp Clysters) because the Tumor was soft and loose, only by profound scarrification of the tongue, and after he commanded that it should be washed with salt Water, from whence there came such abundance of humors that the child presently recovered. Which Observation he took from *Joachim Camerarius*, who saith in his Book of Observations, that one who was almost suffocated with a swollen tongue, cured himself by cutting it across with a sharp Pen knife after he had lost much blood.

Finally, A fleshy Tumor of the tongue, or the over-growing of the tongue, coming of the superfluous flesh, although it seem to be incurable; yet it is shewed by *Claudius* by Chyrurgery to be done, in the place cited; namely, if whatsoever be superfluous be taken away with an Incision-Knife first having fit preparations, all which are prescribed by him in the same place.

CHAP. II.

Of the Tumor called Ranula under the Tongue.

ALthough in the former Chapter divers Tumors of the tongue are laid down by us, yet there remaineth one called *Batrachos* in Greek, in Latin *Ranula*; for since it differs from the rest in Nature, and requires a different way of Cure, we thought it best to describe it in its proper Chapter.

Ranula is a Tumor under the tongue in that part by which it is bound to the Ligament; and for the most part it is so large that it is above the lower Teeth; a cleft being in the middle dividing the right side of it from the left, it representeth the hinder parts of a Frog, from whence it is called *Ranula*, a little Frog. Others say it is called so, because they who have it, have an impediment in their Speech, and croak like Frogs, when they speak. It is like the Tumor Oedema, or Meliceris, from which when it is opened, there comes as it were the white of an Egg, or matter like Honey. And because the said matter is contained in a Bag, therefore it is accounted Meliceris. In these bags sometimes is found a stone as many observe, which *Schenkius* also observeth. Obs. 388. Lib. 10.

DIAGNOSTICK. The knowledge of this disease is not difficult, for when the tongue is lifted up, there is seen a certain loose and soft carnosity, and on both sides of the Ligament there is a certain round swelling like a Pease, Bean or Chestnut.

PROGNOSTICK. This disease is commonly without danger: But in Children sometimes it threatneth suffocation by reason of the nearness of the Larynx to the rough Artery. In Men if they have pain and a Fever there is danger, for it may turn to a Squinancy. Also that *Ranula* is dangerous which is black or dusky and hard, and inclining to the nature of a Cancer, and this must not be touched.

CURE. For the Cure of this Disease, first you must take away the antecedent Cause by blood-letting and with purging agreeable to the age and nature of the Patient.

And if the Disease be old you must use Cauteries and sweating Drinks.

Then you must endeavour to dissolve the Tumor with Topicks, thus:

Take of Pomegranate Peels, dried Hyssop and common Salt, of each two drams; make a Powder thereof to hold under the Tongue, and use it often.

Forestus speaks of a Girl of twelve years of age, that was cured in two days space with this only Medicine; whose Author is *Nicholas Florentinus*, who instead of common Salt, useth *Sal Armoniack* to men, because it pierceth more, and dissolveth better. And *Forestus* useth the said Powder to a Student made with common Salt; as also a Decoction made of equal parts of Galls, Allum, and Pomegranate flowers: And lastly, he commanded the part to be rubbed with parched Salt, and *Sal gem* and the Patient was cured without manual Operation, which is seldom seen, because those Tumors are of the nature of Imposthumes, and are contained in a little bag, so that when the matter hath bin discussed, they have been filled again.

If this Tumor cannot be cured with discussing Remedies, you must open it, which must be commonly done, for it is very seldom discussed.

You

You must not make a small Orifice when you open it, because the matter contained in the Bag will be again gathered and the bag filled (unto which the part being loose and soft, is very much disposed) but you must make a very long Incision through the height of the Tumor in both sides, that the whole matter may be discharged at once: then you must wash the Ulcer, first with gentle things, as the Decoction of Mallows: and then with Clenfers, as white Wine and Hony of Roses, or Diamoron, and after with Oxymel till it be clean and free from the Bag: And finally, to heal it up, wash the mouth with red Wine in which Allum is dissolved.

Forestus Cured the like in a Woman by an Incision made on both sides, and after by washing with Wine and Water mixed with a little Salt.

If the Disease be old, and the Ulcer will not be cured by the aforesaid Remedy, let it be touched with Oyl of Sulphur twice every day, mixed with Rose-water, one drop of Oyl to six of Water; for so the Distemper will be corrected, and the part dried, which must be often washed for confirmation, with red Wine with Allum dissolved in it.

If after the use of these the Disease return, you must come to an actual Caution, the manner whereof is taught by *Paræus*, lib. 7. cap. 5.

CHAP. III. *Of the Taste being Hurt.*

THE Taste as other Senses, and all actions of the Body, is hurt three ways; By being Diminished, Abolished, Depraved: It is lessened when it scarce perceiveth remits favors and strong favors but a little: It is Abolished when it no ways perceiveth those favors whether they be great or little: It is Depraved when the objects seem to be of another taste.

CAUSES. The Causes of Diminishing and Abolishing the taste are the same, only they differ in degrees; for if they be light and weak they Diminish; if great, they Abolish the taste.

And these Causes are either a Defect of the Animal Spirit in the part, or a Distemper of the third part of Nerves which come to the tongue; or the tongue it self is Preternaturally affected.

The Spirits fail, either by reason of their scarcity, as in dying men; or of the obstruction of the Nerves of the third Conjugation by which they are carried, or by reason of a Tumor bred in that part of the Head from whence those Nerves do arise.

The tongue is either covered with a moist slimy matter, or hath Tumors, Pustules or Ulcers, and by these the proper action of Taste may be diminished or abolished.

The taste is depraved when the tongue is infected with an evil Humor, as in Feavers, when the tongue is infected with Choller, all things tasted are thought bitter; otherwise if it be with Salt flegm or Melancholy all things appear to be salt or sour, for the outward objects being brought to the tongue do move the vicious juyce of it, which at that time striking upon the tongue most, leaveth its favor thereon, and so those things which are tasted, seem to be of the same taste.

It happeneth also sometimes that the tongue perceiveth the favors of the juyces contained in its self, although no external Object be applied, as *Galen* teacheth, 1 de *symp. caus.* cap. 4. And it is confirmed by daily experience in men in Feavers, whose tongue is covered with Choller; which if it be very bitter, they find a continual bitterness on the tongue though they take nothing into their mouths.

DIAGNOSTICK. The Diversity of the Causes aforesaid is known by the diversity of the tastes and disposition of the Tongue, for a sweet taste and redness of the tongue signifieth blood, bitterness and yellowness Choller, whiteness with sweetness Flegm, blackness and sharpness Melancholy, a Nauseous taste sheweth that evil humors are contained in the stomach; Pustules, Tumors and Ulcers are manifest to the Eyes. And lastly, if the taste be hurt, and there appear no change in the tongue, you must suppose that the Cause lieth in the Brain or Nerves.

CURE. The Cure is various according to the diversity of Causes, and therefore if the Disease lie in the Brain or Nerves, you must apply Remedies thereto, especially such as use to be prescribed for the Cure of the Palsey; but when the taste is depraved by ill humors, commonly that Symptom depends upon other Diseases especially upon Feavers, which being cured the Symptoms also are removed.

If the Taste be offended by Tumors, the Cure thereof depends upon the Cure of the Tumors above mentioned.

Finally, If it come from Pustules or Ulcers of the Tongue, you must Cure them by blood-letting and purging of sharp humors; to which you may add Cooling, drying, and binding Topicks in form of a Gargarism; and if foul Ulcers be found, let them be cleansed with honey of Roses, with a little Oyl of Sulphur or Vitriol, in such a quantity as may gently touch upon the Tongue.

Or,

Or, if you will dry more violently, let the part affected be often touched with the aforesaid Oyls, pure and not mixed, for so the *Aphthe* or Thrush and all Ulcers of the Mouth and Tongue are quickly Cured.

CHAP. IV. Of the Palsey of the Tongue, and the Hurt Motion thereof.

THe chief Acting of the Tongue, is Speech, and this is Abolished, Diminished, and Depraved by divers Causes, which are referred to Similary, Organick, or Common Diseases.

As for the Similary, A moist Distemper with Matter maketh the Tongue more soft and loose, so that it cannot freely exercise its motions.

Dryness doth too much foul the Tongue, as in Feavers.

But Organical, or Diseases of the Instrument, are when the Tongue is enlarged, as we said before concerning Tumors, which hinder the free motion of it: also when the figure or shape of it is deformed, as when the Tongue is naturally too short, or by being partly cut off, or if it tyed too strait; as also when the seventh pair of Nerves which come from the Brain to the Muscles which move the Tongue, are stopped.

Lastly, Common Diseases are Solutions of Continuity or Wounds in the part.

Too much moisture maketh Balbuties, a kind of Stammering, which keepeth Men from pronouncing of the Letter R.

And this is either Natural as in Children by reason of their much moisture, who are Cured by Age when the superfluous moisture is consumed.

But in some there is a moist distemper all their Life, and they are always Stammerers; of which *Hippocrates* speaketh, *Aph. 32. Sect. 6.* thus, *Stammerers are most subject to long Fluxes of the Belly.* *Galen* in his Comments saith, *That they who naturally stammer, have either a moist Brain or Tongue, or both.* From the moist Brain much moisture may fall into the Belly, whence the Flux is caused. And when the tongue is naturally too moist, it is probable also that the Belly will be loose and weak through moistness; because the stomach and the tongue have both the same Tunicle; Now the proper passion of a moist Belly is a Looseness.

But *Avicen* seems to be against this Doctrine, saying, *Fen. 1. lib. Tract. 4. cap. 18.* That Stammerers are given much to Melancholy, and Melancholy cometh from a dry Brain; but this contradiction is reconciled, thus, *Avicen* meaneth by Stammerers, not such as are properly so called and cannot pronounce R, but such as Stutter, and repeat the same Syllable often before they speak a word, this cometh from a hot and dry distemper of the Brain; in which the thoughts are so quick that they out-run the tongue, and hastens its motion, whence comes that disturbance.

But the Stammering aforesaid coming from the Birth is incurable.

In some an accidental Stammering cometh by a Catarrh, and great defluxion of Rheum upon the jaws and tongue, which is cured by Evacuation, Revulsion, and Derivation of the Humors; as also by Strengthening and Drying the Brain, but because the Remedies are the same with those for the Palsey of the tongue, of which we shall now speak, they may be taken from thence.

Two pair of Nerves go to the tongue, the third pair to exercise the act of Tasting and Sense; And the Seventh pair for Speech and adversity of Motion, by the Obstruction and Relaxation of the seventh, cometh the Palsey of the tongue, which is a Privation or diminishing of the motion of the part; and this useth to follow an Apoplexy when the hinder part of the Brain is too moist, and then other parts of the body, and for the most part half the body hath the Palsey: sometimes it is only in the tongue when the Nerves and moving Muscles are too moist; also by cutting of those Nerves there cometh a Palsey of which there is an example in *Avicen*, *Fen. 6. lib. 3. tract. 1. cap. 12.* in these words, *A certain man was Cupped and Scarrified, and the small hair-like Nerve was cut with Scarrification, which is in the substance of the Pannicle joyned with the Tongue: wherefore the Tongue was relaxed.* We may suppose that these Cupping-glasses were applied to the Neck and hinder part of the Head, for since the Nerves that move the tongue, come from the beginning of the Spinal Marrow which is in the Neck: It is most certain that the Scarrification was made so deep that some branch of them was divided.

But although the matter producing this Disease be Flegm, yet sometimes it is thicker and colder; sometimes thinner and hotter as the humors which predominate in the Body, the knowledge whereof is from *Avicen*, *Fen. 6. lib. 3. tract. 1. cap. 6.* in these words, *And sometimes the redness of the Tongue and hotness shew that the matter is bloud, and sometimes much watery spittle sheweth that*

the matter is thin, and when there is little benefit by Resolving Medicines, and much by binding and astringent.

This Disease, if it come from the Brain, and follow an Apoplexy, so that other parts also are affected, is seldom cured, especially if the Patient be in years; but if it be single, and in that part only it is to be cured, and the easier if the Patient be young.

CURE. The Cure of the Palsey in the Tongue, is by taking away the antecedent Cause, that is the humor abounding in the Brain, and by discussing and dissolving the conjunct cause, namely, the humor which is fastened upon the Nerves that move the Tongue.

The Antecedent Cause will be taken away by the Medicines prescribed in the Cure of the cold distemper of the Brain.

And first you must purge with Pills, or a Potion there mentioned. After if blood abound, and be either the Principal, or the assistant Cause of the Disease, take so much as age and strength will permit, then administer a Cephalick Apozeme; and if the Disease seem stubborn, give a sweating diet; all which are formerly prescribed in the place mentioned.

After general Evacuations, come we to the derivation of the matter causing the Disease, by Cupping and Vesicatories applied behind; as also by Cauteries. *Avicēn* applied a Cupping-Glass under the Chin, which is now also allowed.

Open the Vein under the Tongue and it will profit, if before you have made general Evacuation to derive the Humor from the Muscles of the Tongue.

For the discussing and drawing forth of this humor, let the Gargarism following be thus used:

Take of Flowerdeluce Roots half an ounce; Organ, Sage, French Lavender, Rosemary, of each half a handful; Cubebs three drams, Liquoris one ounce: Boil them in equal parts of White Wine and Water to a pint; dissolve in the straining, Oxymel of Squils two ounces. Make a Gargarism, to which if it work not strong enough, you may add two or three drams of the Decoction of Pellitory of Spain, or of Mustard seed. You may add Castoreum if it offend not the Patient with the scent.

To this end you may often rub the Tongue with Oxymel of Squils alone, or mixed with Mustard seed.

A bag of Sage is much commended for to rub the Tongue with often, to which you may add Mustard seed also.

Also these following Pills ought to be held often upon the Tongue:

Take of the Juicy of Betony and Liquoris, of each one dram and an half; Castor and Affaetida, of each half a dram; Nutmeg and Spickard, of each one scruple; incorporate them with Honey, and make them into the form of Lupines.

Here also Gargarisms, Masticatories and Errhines, which are prescribed in the Cure of the Cold Distemper of the Brain may be used.

Also for the strengthening of the Brain, and dispersing the reliques of the humors therein contained, Fumigations and Powders for the Hair, with Caps mentioned in the same Chapter, are here to be used.

Lastly, You must prescribe the usual Medicines against encrease of Flegm, namely, *Syrupus Magistralis*, or ordinary Pills, with a strengthening Opiate, as is there declared.

The End of the Fifth Book.



THE
SIXTH BOOK
OF THE
PRACTICE
OF
PHYSICK.

*Of the Diseases of the Teeth, Gums, Jaws, Palate,
and Wind-pipe, or Larynx.*

The Preface.

THE Parts contained in the Mouth and Jaws suffer divers Diseases, the Chief whereof we only desire to lay down, and to omit those that are ordinarily Cured by Chirurgeons: Therefore this Book shall contain Seven Chapters. First, of the Tooth-ach. Secondly, Of the blackness and consuming of the Teeth. Thirdly, Of the Eating away, and Exulceration of the Gums, Fourthly, Of the Flux of Blood from the Gums. Fifthly, Of the Ulcers of the Mouth and Jaws. Sixthly, Of the Relaxation or Falling down of the Palate. And Seventhly, Of the Angina, or Quinzy.

CHAP. I.

Of the Tooth-ach.

Galien in his Fifth Book of the Composition of Medicines, cap. 8. & 16. of the Use of Parts, cap. 2. saith, That the teeth are not only sensible in respect of their Nerves at the Root, and Membrane which inwardly covers their Cavity, but also in their proper substance; and saith, That the teeth and other parts of the Mouth doth tast, as also doth the tongue. And in his Book of Bones, cap. 5. he saith, Of Bones only the Teeth are partakers of the tender Nerves of the Brain; and for that cause they alone do manifestly feel.

Therefore pain reacheth not only to the Nerves and inward Membranes, but also the substance of the teeth.

CAUSES. The tooth-ach comes from a flux of Humors either Cold and Flegmy, or Hot and watery, Salt and sharp: hence comes the Distension or Convulsion of the parts: and these Hu-

more either flow to the Membrans of the Jaws and of the holes wherein the teeth are, or to the nerve which is inserted in the root of the teeth, or to the substance of the teeth. Although some think that the teeth cannot receive into their own substance an afflux of humors and distention, because they are most hard and thick; yet this is taught by *Avicen*, *Fen. 1. lib. 1. doct. 1. cap. 5.* and *Fen. 7. lib. 4. tract. 1. cap. 4.* And sometimes (saith he) there is matter which doth imposthume the Tooth it self. Which Opinion he confirmeth and treateth of chiefly, *Fen. 1. lib. 3. Tract. 3. Cap. 1.* in these words; It is not as some Physicians think, that the Brain it self will not imposthume, reasoning thus; That which is soft, as the Brain, and hard as a bone, is not extended, and that will not imposthume which cannot be extended. But this is erroneous, because that which is soft, if it be viscons or clammy may be extended, and bones are imposthumated, as *Galen* teacheth, and we will shew in our Chapter of the Teeth. Moreover, we say, that whatsoever is nourished is extended and increased with the nourishment, and it is likewise possible that it may be extended and augmented with its superfluity, and that is an *Imposthume*. This *Avicen* teacheth from the Doctrine of *Galen*, who *Lib. 5. de com. med. sec. loc. cap. 8.* saith, Because the teeth cannot grow without nourishment, they are only obnoxious to these two Diseases following, namely, of want and superfluity of nourishment; by want of nourishment they grow drier and thinner, and by superfluity of it, there will be an Inflammation about the fleshy parts. Thus *Galen*. But its probable that pain is more usual (if it be vehement) in those parts which have most exquisite sense, namely, the Nerve and the Membrane in the hole of the tooth next to the root, which doth not only suffer distention and vellication, but also sometimes inflammation of the humors flowing down; for if blood be mixed with other humors, then the pain hath two causes, namely, Distention and Compression, which come from the hardness of the tooth, which the Membrane being inflamed cannot indure: and this Inflammation of the Membrane is for the most part accompanied with the Inflammation of the Gums: which also is reckoned by *Galen* and *Avicen* among the causes of the Tooth-ach.

Now the Humors commonly flow from the Head upon the teeth and parts adjoyning, sometimes from the inferior parts; for when any bad humors, especially watery bred in any part, are abounding in the Veins, Nature desiring to cast off her burden, sends them to weakest parts. And if the teeth by reason of the distemper, foulness or erosion are such, the Flux will chiefly come thither. *Charles Piso* propounds an Experiment of this (who also thinks the tooth-ach comes chiefly from a ferous humor) *lib. de morb. ab illuv. sec. abf. 7.* where he reports that himself being troubled with the tooth-ach for many days, half an hour after he had taken a purging Medicine vomited up above a pint of clear water with such success that ten years after he was never troubled with it. By which Experience he always prescribed Medicines that purge water to them who were so troubled, and with good success. Moreover, he striveth to prove that it comes from this cause, by this sign, Because they who have the tooth-ach do continually spet.

Besides the Causes mentioned, there are also Worms in rotten teeth, and they breed of any matter which is contained and putrified in the Cavities, whether it be Excrementitious, or come of putrifying meats, especially flesh and sweet meats, which by reason of their clamminess stick to the Cavities of the teeth.

Others think that the tooth-ach comes sometimes from Wind contained between the Cavity and the Nerve, which doth violently stretch the inward Membrane, whence comes such intollerable pain.

The principal external causes of Tooth-ach are all those things which cause defluxions; the chief are, Cold Air, South-Winds, staying in the Sun or Night Air, Surfers, and all faults in Diet. Add to these, things that debilitate the part, and make it more fit to receive a Defluxion, as rottenness and hollowness in the teeth, which sometimes make violent pains.

DIAGNOSTICK. The diversity of Causes is known by divers signs. For pain when it comes from hot humors is stronger, the constitution hotter, the age younger: if Summer there is heat sensibly in the part, and inflammation of the Gums oftentimes; it is better for the use of cold, and worse for hot things. But if it come from a cold humor, the signs contrary to these will appear.

If Worms are the cause of pain, it will be intermitting, coming and going often, and sometimes the motion of the Worm will be felt.

When it comes from Wind, it is known by the excess of pain, and sensible stretching, and it ends in short time, and is easily cured with discussing Medicines.

PROGNOSTICK. The Prognostick is divers, according to the variety of the Causes; for that pain which comes from a hot, thin, watery, sharp and salt humor is more violent, but sooner at an end, by reason of sudden change of the humor; but that which comes from a cold and flegmy humor, is less, and lasteth longer.

A Tumor rising in the Gums or Jaws takes away the pain of the teeth, for the Flux is carried to the external parts, so that it no longer lieth in the internal Cavity of the tooth.

CURE. The Cure must be directed for the taking away the Cause, and mitigating the pain; for although

pain; for although Anodines profit but a little except the defluxion be stayed, yet sometimes we are constrained not only to use them, but also Narcoticks or Stupefactive before we take away the Cause; therefore the humor flowing to the teeth is to be revelled, evacuated and repelled, and that which is there, is to be derived and discussed.

First therefore, if the pain comes of hot Humors, open a Vein in the Arm on the same side, by which the humor flowing will be revelled. But if it come of cold, bleeding is not so good; but in regard of the defluxion it may be used, because it is the chief reveller. But then you must take less blood, except there be a Plethory, in which regard, although it be from Flegm, you may bleed freely according to *Galen*, who said, that a large evacuation of blood agreeable to the Plethory is the best remedy for all pains, which we have found true by experience, not only in the pain of the teeth, but in other parts.

Let him purge the day following, with that which is proper for the humor: in the form of a Potion, if a hot humor; with Pills if a cold humor be the cause of pain.

After this, if the pain continue, apply Cupping glasses to the Shoulders with Scarrification, or one great one between the Shoulders without Scarification. A Vesicatory applied to the neck, or behind the Ears, doth violently draw back the humors.

Also to hinder the defluxion, apply astringents to the Temples, as Emplaster of Gum Elemi, or Mastich only upon a piece of Silk, and heat with a brass pestle; the Shop of Emplaster of Mastich, or that against Ruptures called *ad Herniam*. Or this following is good;

Take of Frankincense, Hypocistis, Labdanum, of each one dram and an half; Pitch and Mastich, of each one dram, Opium half a scruple; Oyl of Mastich as much as is sufficient. Make a Mass of Emplaster.

The Root of Comfrey fresh and bruised, applied to the Temples, doth intercept the defluxion very well.

There is also a good Plaster made of Powder of Allum, and Galls mixed with Pitch.

Riverius the Chief Physician to *Henry the Great*, had this Plaster as a Secret:

Take of Cyprus Nuts, red Roses, Mustard-seed torried or parched, Mastich and Terra Sigillata, of each one dram and an half. Let them be steeped in Vinegar of Roses twenty four hours; then dry them: Opium dissolved in Aqua Vita three drams; Pitch and Colophonia, of each one dram; yellow Wax melted in the expressed Oyls, Henbane and white Poppy as much as is sufficient. Make an Emplaster; apply it to the Arteries, and the part affected with pain.

And because the small Veins by which nourishment is carried to the teeth do run by the ears, you may put Medicines into them for the Cure of the Tooth-ach; as Oyl of bitter Almonds to the ear on the same side, or the fume of Vinegar, in which Pennyroyal and Origan have been boyled.

Others put Vinegar into the Ear, by which the defluxion is mightily stayed, especially if the Flux be hot.

But in a cold defluxion, the Juyce of Garlick mixt with Treacle and dropt warm into the Ear, doth wonderfully assuage the pain of the teeth. A Clove also of Garlick peel'd and put into the ear, is good.

Also Astringents in the beginning of the defluxion, may be applied to the part pained, cold, if the matter be hot, but if it be cold, you must put hot things with your repellers: But in every cause, if the pain be great, you must mix Anodines with Repellers. As,

Take of the Roots of Snakeweed, Five-leaved grass and Tormentil, of each one ounce; the Leaves of Vervain, Plantane and Maudlin, of each one handful: Cypress Nuts, Galls and Acorn Cups, of each two drams: red Sanders and Crystal, of each one dram and an half: red Roses and Pomegranate Flowers, of each one pugil: boyl them in red Wine and Vinegar, and wash the part grieved often therewith warm.

This may be used in the beginning of a hot defluxion, but in a cold, Cypress Roots, Box Bark, Ivy Leaves, and the like.

A plainer Medicine is made of Plantane and Rose-water, with as much Vinegar like an Oxycrate.

Or boyl Galls in Vinegar, and wash the teeth therewith. Or,

Take of the Root of Cinquefoyl half an ounce: Willow Leaves half a handful: Galls two drams: boyl them in red Wine, and wash the mouth. This stays the defluxion, and takes away pain.

Then you must use these Remedies, which assuage pain, and take away the cause, of which there is in Authors, and vulgarly a multitude: we will give you the best: of which you must make your choice with this judgment, That those which do not only dissolve and discuss, but also astringe and stop the Flux, be used in the beginning and the encrease, but things that only discuss in the state and declination.

Take of the Juyce of Housleek and Nightshade, of each two ounces: Cows or Sheeps milk eight ounces:

ces; Oyl of unripe Roses one ounce and an half; Opium and Saffron, of each three grains: mix them, and apply it warm with a cloth to the Jaw of the same side often.

Take the Pap of sweet Apples two ounces; Bran steep'd in Vinegar three ounces; Oyl of Roses one ounce; Saffron half a scruple; Opium two grains: mix them for a Cataplasme to the part pained.

Or,

Take of Barley and Bean meal, of each three ounces; Oyl of Roses and sweet Almonds, of each half an ounce: the juyce of Housleek one ounce and an half; Milk as much as is sufficient; make a Cataplasme to be applied often warm to the part. Or,

Take two whites of Eggs, beat them with Rose Water, and dip stufs therein sprinkled with two drams of Pepper powdered; Apply them to the pained side over the whole Cheek.

But here observe, That you apply not astringents to the Jaws if they be swoln, for it is to be feared, That the Humor will so be repelled to the Throat, and the Patient choaked. An Example of which *Valesius Taranta* giveth, of a Physician troubled with the tooth-ach and Inflammation of the Jaws, who applied only Oyl of Roses with Vinegar, which brought to a Quinzy, and he died.

Other Waters may be made to wash the mouth, thus:

Take of the best white Wine four ounces; white Henbane Roots two drams; let them boyl to the Consumption of the third part: strain them and add one ounce of Vinegar; Varnish one dram; let them boyl a heat, and let the mouth be washed often therewith.

The plain Decoction of Vervain is commended of many for the same.

Also a Decoction of Guajacum made with Wine and Water, and a little salt. Or,

Take of Arsmart, and the Barks of the Roots of Henbane, of each equal parts, boyl them in Rose Vinegar, and wash the mouth.

And if the pain cometh from a hot Cause, only boyl a Henbane Root in Vinegar.

If the Arsmart be too sharp, take a less quantity: Nay you may leave it quite out in a defluxion coming of a hot Cause, and put *Perficaria Maculata* instead of it, which is Astringent and Cooling, and his juyce may be given safely at the mouth in all Defluxions that are sharp and Cholerick. Also you may use the Leaves of Henbane instead of the Root.

Some use the leaves of Henbane and *Perficaria Maculata* as a sweet Magnetick Charm, they boyl them in Vinegar, they burn the leaves being boyled with a gentle fire, and wash their teeth with the Vinegar, and they say as soon as the leaves are burnt the pain will be gone: But I rather think it is cured by the Vinegar with which the teeth are washed.

In the aforesaid Decoctions if the Vinegar be so sharp that the Patient can scarcely endure it, you may mix half Wine; and in a cold Cause make them of Wine only.

Amatus Lusitanus Commends exceedingly *Sandarach* boyled in Vinegar and Wine; thus:

Take of *Sandarach* one ounce; Wine and Vinegar of each half a pint; boyl them, and let the strained Liquor be held a long time in the mouth.

The Decoction of the Roots of the great Nettle, with a little Nutmeg and Saffron made in equal parts of Wine and Vinegar and held warm in the mouth, doth wonderfully draw the Humors forth.

But at the first, the pain will seem to encrease; But afterwards, it will be mitigated and cease.

The root of the sharp Dock gathered in the Spring before it groweth forth and dried, applied to the tooth pained, doth appease the pain by a specifical propriety: which is confirmed by the Experiment of *Forestus*, in *Obs. 6. lib. 4.* where he saith, That he applied this root green, and cut in small pieces, to the tooth of a Maid with good success; and that he cured many other therewith after he had given them universal Medicines.

If the Body be well purged, and the head be not very full of Flegm, Mastichatories to draw the Humors from the part affected will do very well; which are made either of Pellitory of Spain a long time held in the mouth and chewed: Or as followeth;

Take of Mastich, Pellitory of Spain, Staphisagre, of each one dram; the seeds of Henbane half a dram; Powder them, and mix them together, and make little Balls thereof in a thin linen Rag, which let him long chew to make him spit.

Commonly the Oyl of Cloves is used in a little Lint to stop the tooth if it be hollow, or otherwise; for so the humor adhering to the part is drawn forth, and the part strengthened.

Oyl of Camphire is very profitable for the same purpose.

Or Dissolve eight grains of Camphire in one dram of the Oyl of Cloves; and use it as above.

But

But above all the rest, the Oyl of Box is extolled, which being but once dropt into the tooth presently stays the pain.

This Oyl is made of Box cut in small pieces, and then distilled by descent in two Vessels, the one put into the Earth, the other above, upon which you must make a long fire, and so the Oyl will fall into the lower Vessel.

Besides the aforesaid Oyls, the Chymists commend the Oyl of the Hazel Nut used in the same manner.

If the pain be so great that it will not away with the aforesaid Medicines, you must come to Narcoticks, which are let down by Practitioners under divers forms; although their effect is as uncertain as others; but they do surely stupify the pain. Among the rest Laudanum is chief, which doth not only appease the pain, but also stop the Flux; and it may be given safely after universal Remedies to the quantity of three or four grains, if it be well prepared.

Many Topicks made of Narcoticks are carried about; These two following are the best;

Take of Opium, Myrrh, and Labdanum, of each one dram; Powder them, and with white Wine boyl them into a Liniment, which put with Lint into the tooth.

The other is the Emplaster of *Riverius*, Chief Physitian to *Henry the Great* above mentioned.

If Worms be in the teeth you must kill them with bitter things: And this following is good for that;

Take of Aloes one dram; Camphire half a scruple; Aqua Vita half a dram; mix them and apply thereof with Lint to the tooth.

It is to be observed, That the teeth do seldom ake except they be hollow to the Nerve; therefore to take away the sense of pain, burn the Nerve with an actual Cautery, or with *Aqua fortis*, or Oyl of Vitriol, which often done to a very hollow tooth, it will be broken in pieces, and so drawn forth.

If the pain still continueth, and the tooth be very hollow, you must draw it out, and then the pain will presently cease and never return.

But you must take heed that you draw not the tooth when the Defluxion falls violently, or when the Head aketh, or the Gums swell, or when there is great pain.

And the Chirurgeon is to be admonished, That he pull it not out violently at one pull lest the Brain be too much shaken, and the Jaw bone broken; from whence comes a great Flux of blood, a Fever, and sometimes death.

After it is drawn, close the part with your Fingers, then let the mouth be washed with warm Oxycrate; and let him take heed of Cold Air, lest a new Defluxion fall upon the other teeth.

But if the blood flow so fast that it will scarce be stanch'd, which sometimes happeneth by the breach of the Vein and Artery, without the breach of the Jaw: And *Variola* reports of one that had his tooth pulled out without Iron or force, but with the Fingers, and yet bled a pint at one time, and as much the next day from the Artery under the Gum. This Flux of blood is stop't by laying a hard piece of Lint like a Ball, and holding it down for one hour or two with the fingers: If that will not prevail, apply burnt Vitriol, and lay a Rag upon it dipt in Vinegar, and compress it with your finger till you make an Eschar. The last Remedy is an actual Cautery by which the blood will presently be stopp'd.

If any fearful people refuse burning and require other means, you must try those which Authors prescribe; As Paste made of the milk of Spurge, and the Powder of Frankincense mixed with a little Starch, the Root of Crowfoot, the Bark of the Mulberry root, the Powder of Earth worms, Pellitory of Spain steep't in Vinegar, and the root of wild Cucumer so steep't, and the like. But the Leaf of Elleboraster rubb'd upon the tooth is best; but you must not touch the other lest they also fall out.

A Countryman troubled with the Tooth-ach, was perswaded by another to rub his tooth with Elleboraster; he unwittingly rub'd all the teeth on that side, and presently almost all his teeth fell out: Therefore if any will try this Medicine, I advise them to defend the other teeth with soft Wax.

Although when there is a Tumor in the Jaws, the pain for the most part ceaseth; because the matter is carried outwards: Yet for the quick dissolving of it, use this Liniment;

Take of fresh Butter and Hen grease, of each one ounce; the Powder of Flower-de-luce Root, one dram; Saffron half a scruple; Oyl of Gamomel and sweet Almonds, of each half an ounce: make a Liniment.

A Cataplasme made of Figs, Bread and Vinegar, is better.

A Nettle bruised and laid to the Jaw, doth quickly assuage the pain.

This

This is the Cure of the tooth-ach for the present. But if it return often, as is usual, you must use preventions, which is to hinder the breeding of those humors that flow thither; and let the teeth be strengthened that they may be less capable to receive them. Therefore if it proceed from a hot cause, you must use such Medicines as were prescribed in the cure of a hot distemper of the Liver, and a hot Catarrh. If from a cold cause you must take that course which is prescribed in the Cure of the cold distemper of the Brain; but you must strengthen the teeth with the Medicines in the Chapter following.

CHAP. II.

Of the blackness and rottenness of the Teeth.

MAny times the teeth do contract a black, livid or yellow colour, from the evil Humors cleaving unto them, which by long continuance do also corrode them, and make them rotten: and these Diseases come from filthy vapors that fly upwards, and are engendred of evil nourishment, or from the Distemper of the stomach, which corrupteth good nourishment.

Quick silver doth black the teeth, whether it be used to the whole body, as in the Pox, or only to the Face. Hence it is that Women which use Mercury to make them fair, have black and ill coloured teeth.

CURE. For the Cure you must first remove the antecedent Cause, and if it come from evil humors in the stomach, they must be discharged, and the distemper of the parts which produce them must be corrected, and a good diet prescribed, and those things forbidden which do corrupt the teeth, especially sweet things.

Infinite Medicines are prescribed by Authors for making teeth white, which may be experienced. We are contented with one, which presently makes them white, cleanseth them, and keeps them from rotting, namely, the Spirit of Sulphur or Vitriol, in which you must dip a little stick, and rub the teeth with the end thereof, and then wipe them with a clout. In a great foulness you may use the Oyls by themselves, otherwise you must mix them with Hony of Roses, or fair water, lest by the often use of them the Gums should be corroded. *Montanus, consil. 113.* reports, that he learned that at Rome, of a Woman called *Greek Mary*: to whom when he came when he was young, and she twenty years old, and after when she was fifty, he found her almost in the same condition, and she confessed that her beauty and strength was preserved by the Spirit of Vitriol, and that her teeth which were very bad in her youth, were by that made very fair and firm, and also her Gums; and also that she perceived her self by the use thereof to seem more youthful, and she used every day one drop or two to rub gently her Teeth and Gums.

The Ashes of Tobacco is very good also to cleanse and make white the teeth.

For prevention, and to preserve the teeth, first cleanse them with a Tooth picker made of Mastich Wood or the like; then wash the Mouth with Wine, and rub the teeth with this Powder:

Take of the Roots of Snakeweed, Allum and white Coral, of each one ounce. Make a Powder to rub the Teeth.

Or wash them with this Powder:

Take of the fine Powder of burnt Allum two drams; whole Cinnamon half a dram; Spring and Rose Water, of each four ounces: boyl them in a Glass upon hot Embers to the consuming of the third part. Wash the Teeth therewith every morning with a cloth dipped therein.

Chap. 3. *Of the Erosion or eating away, and of the Exulceration of the Gums.*

THe Gums are eaten away and exulcerated by sharp corroding humors which come unto them. The parts from whence they come are, the Brain, Stomach, Spleen and others. Men that have diseases in the Spleen, are most subject to Ulcers in the Gums, as in the Scurvy; sometimes the erosion of the Gums comes from worms, or the corrupt humors which cause worms, so that it is a plain sign of worms when it continueth long. So saith *Fabricius Hildanus, Obs. 59. Centur. 1.* the Son of a Citizen of *Dusseldorp* was long troubled with erosion of the Gums, and died, after the use of many internal Medicines and Topicks: when he was opened we found abundance of worms, which had eaten through his Guts, and many in his Stomach.

CURE.

The cure is first to be directed to the antecedent cause, and the vicious humors are to be evacuated by blood-letting and purging; the sharp and hot humors are to be tempered with Apozemes, Juleps, and

and Physical Broths and the like. The Flux of the same is to be diverted by Cupping-glasses, and Cauteries fitly applied. And lastly, the faults of the parts affected are to be corrected.

Afterwards you must use Topicks, which are to be altered according to the greatness of the disease so that to a simple Erosion you must apply only those which astringe and dry, as this Water following:

Take of unripe Galls, Acorn Cups and Flowers of Pomegranates, each one ounce; red Roses one pugil; Allum three drams; boyl them in two parts of Forge-water, and one part of old red Wine, and wash the Gums often therewith.

If the Erosion be not taken away with that, use this Opiate:

Take of Dragons blood three drams; Lignum Aloes, red Roses, Spodium, and burnt Harts-horn, and Cypress nuts, of each one dram; Myrrh and Tobacco Ashes, of each three scruples; Allum one dram. Make them into a Powder, and mix them with Hony and a few drops of Spirit of Vitriol, or Sulphur. Make an Opiate, which must be spread upon a linnen cloth and laid to the Gums at night.

The Spirit of Vitriol and Sulphur, as they cleanse and whiten the teeth, so they take away the rottenness of the Gums, either alone, or mixed with Hony of Roses or Water, as in the former Chapter.

If the Ulcer be deep and foul, anoint it with this;

Take of choice Myrrh and Sugar Candy, of each equal parts; powder them, and fill the white of a hard Egg cut in the midst therewith; then tie with a thread and hang it in a Wine-Cellar with a Glass under it, and there will come forth a Liquor or Balsom, with which anoint often.

But if by the use of the aforesaid Medicine the disease be not cured, if the tooth near the Ulcer rotten, you must pull it out, and then it will be presently cured, otherwise never.

Chap. 4. Of Bleeding at the Gums.

Sometimes abundance of blood flows from the Gums either critically, or Symptomatically, although the former be very seldom, yet it is sometimes; so we may see by Experience, and by reading. So saith *Dodonaus, Obs. 14.* A certain Quarrier having the Small Pox had a Flux of blood from his Gums, and being stopt, it made his Urine bloody, which being stopt, it returned again to the Gums, and there continued till he recovered of the Small Pox. *Amatus Lusitanus, Curat. 5. Centur. 5.* says that some have had benefit by bleeding at the Gums, and have been worse when it was stopped. Also *Zacutus Lusitanus, Obs. 86. lib. 1. Praxis admir.* speaks of a Goldsmith, who when he fell into a Feaver by labouring at the Furnace, being of a strong constitution, lost much blood by opening a Vein, and amended, so that the seventh day (having had an itching of his Gums, and a pain in the lower Lip) the blood gushed from the Veins of his lower Gums for three days in such a quantity, that he lost above five pints more, and the more he bled, the more his Feaver abated, and when it was gone the blood stopped.

The Gums bleed Symptomatically when the blood is sharp, and the Liver or Spleen distempered: So that in the Scurvy this Flux is ordinary.

Sometimes after a tooth is drawn, there is so great a Flux of blood by reason the Artery is torn, which is the root of the tooth, that sometimes Men have died thereof.

CURE. The Cure of a Symptomatical Flux is by bleeding and purging, and other Remedies for the Bowels. As also by Topicks astringing made into Gargarisms, Powders Liniments or Opiates.

If it come from a tooth drawn, you must let blood and Cup to make Revulsion, and apply astringents to the part, as a Cataplasim made of Bole Armeniack, Terra Sigillata, Sanguis Draconis, and the like astringents made up with the white of an Egg. Also Thyme alone with the white of an Egg is good. But if they do not suffice, you must lay the Patients finger upon the part, and let him hold it there till the blood congeal above the Orifice of the Artery. If it cannot be stopt with slight things use stronger. *Valeriosa, Obs. 3. lib. 5.* reports, that an old Woman who had a Tooth taken forth with the fingers only, had a violent bleeding upon it from the Artery under the Gum; which he stopt with burnt Vitriol when other things failed; which is excellent both for astringency and burning. *Zacutus Lusitanus, Obs. 84. lib. 1. Prax. Med. admir.* relates a History of one who having a grievous Tooth that ached drew it violently forth, and after had a great flux of blood from the Artery torn, which when it could not be stopped by Blood-letting, Cupping and Astringents, nor by laying on the finger, nor by burnt Vitriol, at last by his advice the place was filled with Gum Arabick, which stopt it in three hours space, for it hath power to stop, cool, glutinate and dry. The same *Zacutus, Obs. 85.* of the same Book, reports of a certain strong Souldier, who after great pain drew a tooth violently, and bled much from the Artery under the tooth for two dayes: the best Physicians use all Astringents

gents to the part, with Revulſives, and burn the Artery with a hot Iron, but all in vain, for he bled ſtill even unto death: *Zacutus* being called, applied the Plaſter of *Galen* made of Frankincenſe, Aloes, the hairs of an Hare powdered, and mixed with the white of an Egg, by which in a few hours the bloud ſtopt and the Patient recovered.

Galen boaſteth that he invented this precious Medicine, *lib. 5. meth. cap. 7.* and ſtopped the Artery in the Elbow. And *cap. 4.* of the ſame Book, and in his Book of Curing by Bloud-letting, Chapter the laſt, he confirmeth the Excellency thereof by many ſtories.

Chap. 5. Of the Ulcers of the Mouth and Jaws.

THe ſmall and ſuperficial Ulcers of the Mouth are uſually *Aphthæ* or a Thrush, although in *Galen* and *Hippocrates*, it is ſometimes uſed for Ulcers in other parts; but they which are deeper are abſolutely called the Ulcers of the Mouth and Jaws: Such as are in the French Pox.

CAUSES. Theſe Ulcers breed of ſharp Humors or Vapors coming from divers parts into the Jaws; ſo in malignant Feavers they often happen, or to thoſe that have hot Livers, or ſoul Bodies: So the Children have the Thrush, as *Hip. Aph. 24. Sect. 3.* either from ſharpneſs of the Miik which ulcerates thoſe tender parts in its paſſage, as *Galen* teacheth in his Comment upon the ſame Aphoriſm, or from the Corruption of the milk in the Stomach by which ſharp vapors are ſent to the mouth, as *Galen* affirms, *9. de compoſ. med. ſec. loc. cap. ultimo.*

DIFFERENCES. Now theſe Ulcers are divers, as ſome are ſlighter, and ſome more dangerous; ſome are in Children, ſome in Men; ſome are joyned with Inflammation, ſome are without; theſe divers degrees are according to the variety of the Humors of which they come. For they proceed either of Bloud, Choler, Flegm, or Melancholy, or Choler Aduſt, which hath not only a burning, but often a malignant quality, and begets evil conditioned Ulcers.

DIAGNOSTICK. Theſe Differences are known by their proper ſigns, for if the Ulcers be Reddiſh they come of Bloud; if Yellow, of Choler: if White, of Flegm: if Livid or Blew, from Melancholy, if they ſtink they are ſoul.

PROGNOSTICK. As for the Prognostick.

Aphthæ or a Thrush is eaſily Cured, but deep Ulcers and putrid, called in *Greek Nomai*, are hardly Cured: And in Children they are more dangerous by reaſon of their tender fleſh which they ſooner devour: As alſo becauſe ſtrong Medicines cannot be applied to them; hence ſometimes Children die of them, when they are malignant and putrid.

Alſo in reſpect of the Cauſe, thoſe Ulcers which come of Flegm are leaſt dangerous: thoſe that come of Bloud or Choller more; and thoſe that come of Melancholy moſt of all.

Black and Cruſty Ulcers are deadly, eſpecially in Children.

The Jaws ulcerated in a Feaver are hard to be Cured, as *Hip.* teacheth, *3. Prog.* Becauſe as *Galen* explaineth they ſhew the malignity of the matter.

CURE. The Cure is firſt by good Diet, which cooleth and dryeth, and hindreth the Generation of the antecedent Cauſe: Therefore when Childten have it from their ſuck, let the Nurſe be changed, or eat good Diet, as alſo let her bleed and be purged, if need be: eſpecially let her eat Cool Aſtringent things, as Quinces, Pears, Medlers, Services, Lettuce and Purſlain, preſcribe the ſame to men, and let them avoid ſharp things, ſalt, and pepper.

Then you muſt look to the antecedent Cauſe, with Univerſal Evacuations according to the age; And firſt Phlebotomy doth powerfully revel the Humors, and tempereth their ſharpneſs, by cooling the whole body.

After this Cup and Scarrifie, put Horſleeches behind the Ears and under the Chin, and apply a Veſicatory to the Neck behind.

The next day after you have let bloud, you muſt preſcribe a Purge, agreeable to the humor offending and the age of the Patient.

From the beginning of the Cure uſe Topicks, called by *Galen Stomatica*, or Medicines for the Mouth: and at firſt they muſt be mild, as Gargarifms, Mouth-waters made of Plantane, Honeyſuckle, and Roſes; Water with Syrup of dried Roſes and of Mulberries: or Decoctions of Plantane, Bramble Leaves, Knotgrafs, Pomegranate Flowers, Red Saunders and the like; with Syrup afore-mentioned.

And if there be Inflammation, you may do well if you add the Juyce of Nightſhade, Houſleek, and Purſlain, with as much Sal Prunellæ as will not make it too ſharp: Or a little crude Allum.

If there be no Inflammation, the chief and only Remedy is Spirit of Vitriol or Sulphur, which may be uſed alone to men, upon a little lint at the end of a ſtick, gently touching the part, by which it will be preſently cured if it be a ſimple *Aphthæ*: But to Children you muſt mix the Spirit aforeſaid with

Hony

Hony of Roses, so that it may be but a little sharp, and with a little Lint at the end of a Probe often apply it, and they will be quickly cured.

If the Ulcers are very painful and inflamed, they must gargle with Milk often, or with an Emulsion of the cold seeds, or the Mucilage of Fleabane seeds and Quince seeds extracted with the waters of Roses, Plantane and Nightshade.

If the pain will not be removed with these Revulsions and Topicks, but the humors are still drawn thither by it, which causeth want of sleep, and Consumption of the Body, which endanger the life: the last Remedy is Narcoticks, which will assuage the pain, and stop the flux: you must give it according to the strength and age of the Patient.

I once saved a Childs life (by Gods assistance) of four years old with one grain of Laudanum, when his Jaws and Tongue were deeply ulcerated with such an Inflammation, that he could neither take Broth or Topicks; the humors flowing so fast from his mouth that he lay night and day complaining without any rest.

If the Ulcer be fordid, First wash it with the Decoction of Barley and Hony of Roses: and in Children, with Milk chalybated, or in which Steel hath been often quenched, mixed with Conserve of Roses: then use stronger Medicines, and principally Hony of Roses above mentioned made a little sharp with some drops of Spirit of Vitriol.

If these will not do, you may add to the Waters decoction above mentioned burnt Allum, the Collyrium of *Lanfrank* and *Aegyptiacum*, in a quantity agreeable to the Disease.

Lastly, If it come from the French Pox, it will not be cured the Pox be cured.

Chap. 6. Of the Relaxation of the Uvula, or Falling Down of the Palate.

CAUSES.

THe Relaxation of the Uvula comes from a Rheume falling from the Brain upon it, with which there is sometimes Bloud mixed, and then there is an Inflammation also, and this often falls upon the Tonfils or Spongyous Kernels: the Inflammation whereof shall not here be treated of, because it is cured by the same means with the Inflammation of the Tongue, and of the Ulcers of the Mouth.

A waterish humor falling upon the Uvula or Collumella, doth so moisten, soften and relax it, that it will be extended to the upper part of the Oesophagus, and Wezand, and cause a Nauseousness and the Patient will seem to have something in his Throat which he cannot swallow down, by which you may know it without looking into the mouth.

CURE. The Cure is first by the Antecedent Cause, that is, by evacuating the humors flowing from the Head, by revelling and deriving them with such Medicines as were prescribed in the cure of a Catarrh.

The chief Topicks are Astringents and Repellers, such as were prescribed in the Cure of the Ulcers of the Gums and Jaws, and shall be prescribed in the Chapter following of the cure of the Angina, to which afterwards you must add some Resolvers and Dryers: And though the Gargarisms in those Chapters mentioned are here good, yet when there is no Inflammation, the use of Powders is better: for with them the Uvula relaxed is more powerfully dried and astringed.

And therefore, First apply Pomegranate peels powdered, and after mix it with a little Pepper. Or,

Take of red Roses and Pomegranate flowers and peels, of each half a dram: the roots of Snake-weed and Tormentil, Galls and Flower-de-luce Roots, of each one dram: burnt Allum two scruples: Make a Powder. Ordinary Chyrurgeons apply the Powder of long Pepper, but it is dangerous, for it is to be feared, lest the Humors should be drawn violently from the Brain to the part.

The manner of applying this Powder is to depress the Tongue with a Speculum Oris, and then blow up some powder in your Uvula spoon: do this often till the Humor be spent: The Instrument invented by *Fabricius Hildanus*, *Obs.* 21. *Cent.* 2. is the best for this.

And if the Uvula relaxed cannot be brought to its former condition by these means, but continueth extended and painful, your last Remedy is to cut of a piece thereof: in which Operation you must take some Cautions. The first is from *Hippocrates*, 3. *Progn.* *Text.* 21. where he saith, That Uvula's are cut and scarrified, and burnt when they are red and swollen, but not without danger, for an Inflammation followeth, and a Flux of Bloud: but you must endeavour to extenuate these accidents by other means at that time: But when the Uvula hangs down, and the lower part of it is greater than the higher, and round, then it is safe to operate: but it is better first to administer a Cly-

ster, if time will permit. Galen in his Commentary upon these words of *Hippocrates* saith, That an *Uvula* inflamed, is not to be cut off or scarrified; but after the Inflammation is gone, so that the superior part is lessened. Another Caution is taken out of *Paulus Aegineta*, lib. 6. cap. 31. you must not touch the *Uvula* with an Iron to cut it when it is lived or blackish, that is, when it hath malignity in it, and inclineth to be a Cancer. But out of the same Author we have a lawfulness of the operation, when they are long and white, or as *Hippocrates* saith, small at the Top. We have an Example of the good success of this operation in *Amatus Lusitanus*, Obs. 65. Cent. 3. upon a Student, who had his *Uvula* hung down like a thong, long, and without blood in it; which when Medicines could not cure he cut off, and after touching the part with a little Spirit of Vitriol, he cured the Patient.

The third Caution is, That you cut not off too much; for then the Voice and Breathing will be hurt, according to *Galen*, 11. de usu. part. cap. 11. and consumption and death it self will ensue as often is seen in the French Pox.

Chap. 7. Of Angina, Quinzie or Squinzie.

THe word *Angina* taken generally, signifies every Disease of the Jaws and Throats, by which breathing and swallowing are hindered, when there is no defect in the Lungs and Breast.

DIFFERENCES.

And this is twofold, a legitimate and proper Quinzy, and a Bastard or improper.

A Legitimate Quinzy comes from an Inflammation, by which the Muscles of the Jaws and Throat being swelled, do stop and contract the ways of breathing and swallowing. This Inflammation doth either possess the Throat or the Jaws, called *Pharynx*. Both these parts have both internal and external Muscles; And though for the most part the *Pharynx* and *Larynx*, Jaws and Throat, do suffer in an *Angina* by reason of their nearness, yet one is more affected than the other: Hence many differences of Symptoms do arise, in respect whereof *Galen* in 4. de loc. aff. cap. 5. makes four sorts of *Angina's*; which the *Græcians* before his time named too curiously. One is called *Sunanchen*, another *Cunanchen*, the third *Parasunanchen*, and the fourth *Paracunanchen*; If the Inflammation be in the inward and proper Muscles of the *Larynx*, it is called *Cunanche*; if it be in the inward Muscles of the *Pharynx*, *Sunanche*; if in the outward Muscles of the *Larynx*, *Paracunanche*; and in it the outward Muscles of the Jaws or *Pharynx*, it is called *Parasunanche*.

Not only the Muscles of the Jaws and Throat are for the most part inflamed as aforesaid, but also the parts adjacent, and the outward part of the Neck, as shall be said in the Diagnostick and Prognostick of this Disease.

In all these kind of *Angina's*, when there is great danger by the difficulty of swallowing, then those things which are given use to fly out at the Nose, especially if they be liquid things, which are more hard to be swallowed at that time; because they spread themselves abroad, and therefore cannot so easily be comprehended of the Muscles to be sent into the *Oesophagus*, which Muscles cannot sufficiently contract themselves by reason of the inflammation; but solid nourishments being more corpulent, need only the superficial action of the Muscles, and are swallowed down by a small contraction of them. But it sometimes falls out that solid things are harder, and liquid things easier to be swallowed, which dependeth upon the diversity of the part affected: For the Muscles of the *Larynx* are ordained for to swallow Meat, as well as for the voice: and when the meat is thrown into the *Oesophagus*, the *Larynx* is lifted up with the Tongue. But for to swallow drink, We use the Tongue most, which while it is drawn inwards, it brings the drink from the Lips to the Jaws. If therefore the Muscles that move the tongue are most affected, it is harder to swallow down drink. But if the Muscles of the *Larynx* are more hurt, it is harder to swallow meat.

Here by the way, We must mark, That *Hippocrates* sometimes by the word *Angina* doth understand only the inflammation of the *Larynx*, and so it is taken more strictly, of which there is an example 6 *Epid. Sect. 8. Text 1.* where he saith thus, Some had inflammations of their Jaws, some had *Angina's*; where by the name *Angina*, he understands the Inflammation of the Muscles of the *Larynx*, and distinguisheth it from the inflammation of the Jaws.

A Bastard *Angina* is without a Fever, and is twofold.

The first and most ordinary comes of Rheum falling upon the Jaws, and parts near unto the *Larynx*.

The other comes from the Luxation of the *Vertebra's* of the Neck, by which the passage of the Gullet and the Throat is pressed and made narrow.

CAUSES. The Cause of a true *Angina*, as of other Inflammation, is either pure blood, or mixed with Choller, Flegm or Melancholy, which falls upon the parts aforesaid out of the branches of the Jugular Veins, and this is either attracted by the heat or pain of those parts, or sent from other parts, because these parts are weak, loose and fit to receive a defluxion, especially if the whole body abound

abound with humors, or the head, or the parts near the Jaws. For when evil blood aboundeth in the whole body, and is carried unto the head, if the Brain be strong it will not receive it, but sends it down by the same Veins into the lower parts; hence come divers Inflammations, As Parotides, or Tumors under the Ears, Ophthalmies, Angina's and the like.

Young men are more subject to the Angina then old, because they have much cholerick blood, and because they are full bodied, and have much blood, especially in the head.

Some Authors say that men are most subject to the Angina's then Women: which it seems *Hippocrates* observed, 6 *Epid. Sect. 7.* where describing an Epidemical Constitution, in which Angina's, Coughs and Peripneumonia's, or Inflammation of the Lungs were frequent: he affirmeth that few Women were sick, and he gives no other reason, but because they were less abroad than men, and therefore were not so subject to injuries from the Air: Which reason doth not agree with the universal Proposition, That women are less subject to Angina's than men: but this may be a true reason because women have colder blood, a less *Larynx* or Wind-pipe and narrower Veins of the Throat. For which reason those parts do not easily receive defluxions.

The precedent diseases may be reduced to their internal causes, as continual, putrid, burning and especially Epidemical Feavers, such as were mentioned by *Forestus*, *Obs. 2. Lib. 6.* which happened in the year 1517. at which time all that were infected had an Inflammation of the Jaws, and died within sixteen or twenty hours, except they were let blood within six hours. But in this *Angina* the Feaver is not Symptomatical, but Essential, and the *Angina* is a symptome to it, because part of the matter causing the disease is sent to this place: for in Epidemical Feavers, *Angina's*, Pleurifies, Inflammation of the Lungs, Disenteries and the like, do happen from some secret force and influence of the Stars, by which sometimes one part of the body, and sometimes another is more affected.

Whatsoever can cause a flux of humors to these parts may be reckoned among the external causes of this Disease: As Southernly Winds, according to *Hippocrates*, *Aph. 6. Sect. 3.* in time of much Rain many Diseases happen, as long Feavers, Fluxes of the Belly, Putrifications, Falling-sicknesses, Apoplexies and Angina's. Also for the producing of this last, the inequality of Weather doth much, when the parts are made loose by heat, and by cold suddenly coming thereupon, the humors are sent thither. A sudden cooling after heat and drinking of cold water doth the same, or if the Head be kept too hot or too cold.

The first cause of a Bastard Angina, is propounded by *Hippocrates*, 4. *de vict. rat. in morb. acut. text. 39.* where he saith, an Angina comes when in Winter and Spring time much slimy flegm falls from the Head to the Jugular Veins, which obstructeth the Passages of its Spirits with its cold glewiness.

There is another Cause of a Bastard Angina given by *Hippocrates*, 2. *Epidem. Sect. 2.* namely, a Tumor arising in the Vertebra's of the Neck, and especially in that which is called *Dens*, or the shape of a tooth by *Hippocrates*, by which the *Vertebrae* are drawn inward, and therefore a Cavity appears in the external part. Now this Tumor either comes from flegm removing by its encrease, the *Vertebra* from its seat, or from blood falling upon the Muscles, from whence comes an Inflammation, by which the Muscles being contracted draw the *Vertebra's* inward, and then it is a true Angina coming from the inflammation of the said Muscles. There may also be a Luxation of the *Vertebra* by a flegmatick humor loosing their Nerves, and making them slippery between the Joynts. And lastly, it may come from an external cause, as a fall or stroak, as in other parts.

DIAGNOSTICK. An Angina is generally known, first by its proper signs, namely, difficulty of breathing and swallowing, when there is no fault in the Breast and Lungs, and when pain is felt about the Jaws and Throat: and in a true Angina, redness, heat and a Feaver are signs.

The Differences may be distinguished by their proper signs. In *Synanche* there is less difficulty of breathing, but great difficulty in swallowing, so that most things can scarce be swallowed, but come out at the Nostrils.

In *Parasynanche* there is less difficulty of breathing, nay very little, because the inflammation of the external Muscles of the Jaws doth little hinder respiration, there is pain and redness outwardly in the Neck, when the outward parts are inflamed.

In *Synanche* there is a great hinderance of Respiration, so as the Patient seems to be strangled, sometimes is strangled for a short time, and cannot breathe but with the Neck upright, and the Mouth open.

The Jaws are much pained, yet there is no redness or Tumor inwardly in the Jaws, not outwardly in the Neck: the tongue is livid, black and retorted, or bent by reason of the great fulness of the Veins about it. There useth also to be an acute Feaver, you may find an acute description of this kind of Angina in *Hip. 3. de morbis.* And this is remarkable, which is observed of few, The inward Muscles of the *Larynx* are not here only affected, but the Lungs themselves, from whence is difficulty of breathing and Suffocation, which *Dodonaus* observeth very well, *Obs. Med. cap. 18.* where he relates a History of a Butcher, who at noon felt a pain about his Jaws and Throat, and some diffi-

culty in swallowing, and died strangled in the same night; his Body being opened, the substance of his Lungs were found turned into Matter.

He gave other Examples, *Anno 1565*. in which year many had the Angina, with pain about the *Larynx*, which swelling, they fell into *Peripneumonia*, and they being opened after death, had either their Lungs full of water or imposthumated; but nothing was perceived about the *Larynx* or its Muscles, which might shew an inflammation: And in these causes he supposeth that the *Larynx* did not suffer principally, but by consent; and it is probable that the *Aspera Arteria*, or rough Artery and its branches may be filled and extended with the Humor flowing from the Head; and then if the Humor be sent to other vessels, the *Aspera Arteria* and *Larynx* are freed from pain, and the Lungs are infected, and so an Angina may turn into a *Peripneumonia*: We may gather that the Lungs may be affected in an Angina, from *Hippocrates*, 4. *acut. text.* 30. & 31. where he lays down two kinds of Angina's from the diversity of the humors: one, in which a flux of Rheum in Winter and Spring is carried to the Jugular veins; another, in which Choler abounds, which is in Summer and Autumn. Of the last he speaks thus, When a hot and salt defluxion comes from the head, being sharp, it gnaws and ulcerates, fills with Spirits, brings an *Orthopnœa* or difficulty of breathing with the Neck stretched forth, and much drought. Besides, there is no Tumor; the Tendons of the Neck behind are stretched like a Cramp, the voice is hindered, the breath is little, and often stopped, such have the Artery ulcerated, and the Lungs inflamed, so that they cannot breathe. Thus *Hippocrates*, he saith also that a hot and sharp defluxion will bring an *Orthopnœa*, because it biteth, ulcerateth, and filleth with Spirits, which are carried to the place hurt; hence comes the filling of the Lungs, from whence *Orthopnœa* comes: when there is no room for receiving of the external Air, how much soever the Lungs be enlarged. *Hippocrates* affirms this, 3. *de morbis*. where in the Cure of a Quinzy, he saith, the vein under the Breast or Pap is to be opened, for in this part there is a hot Spirit from the Lungs, and a little after he saith, You must make hast to cause spitting, and that the Lungs may grow less, as if the lungs were swollen by the hot spirit contained therein. But it is most remarkable, that when the spirits are carried in great plenty to any part, there is also Blood carried therewith, which if it flow in such a quantity, that it cannot be well governed by Nature, it useth to make inflammations and imposthumes; from whence it is no wonder, if in such an Angina the lungs become purulent or full of water.

In a *Parasynanche* the breath is less difficult than in a *Synanche*; but more difficult than in a *Synanche*, when there is some redness and tumor about the Jaws.

A Bastard Angina is known by the Flegm, by want of a Fever, by the plenty of humors flowing to the Mouth.

But a Bastard Angina coming of luxation is known by the hurt motion of the Head and Neck, and by the preternatural Cavity which appears in the Neck by reason of the *Vertebra* inwardly depressed.

The knowledge of Causes is taken from the universal and particular signs of the Humors predominating in the whole Body.

When an Angina comes of blood, there is heat and redness in the face, and a great distention in the part affected. When it comes of Choler, the pain and heat is greater with thirst, bitterness in the Mouth and sharpness. And if it comes from flegmatick blood, the pain and redness is less, and the Fever little.

From the part affected, some knowledge of the humor offending may be had. For cholerick blood for the most part maketh an inflammation in the Muscles of the *Larynx*; but flegmy blood goes rather to the Jaws, for when the Veins of the *Larynx* are small, only thin blood goes thither; but the Jaws being loose and spongy, do more easily receive the flegmatick humors.

Finally, From the time of the year you may know the peccant Humor; for Cholerick Angina's do come chiefly in the Summer and Autumn, because in the Summer Choler breedeth, and in Autumn it is retained. But flegm breeds in Winter and the Spring, because the Humors gathered in Winter are then melted and sent from the head into the inferior parts.

PROGNOSTICK. A true Angina is a most acute Disease, and very dangerous by reason of the hinderance of respiration; and for strangulation, which sometimes happens by the stoppage of the Passages, by which respiration is made. Therefore by how much the greater the constriction, so much the more danger, and so the first kind of Angina is most dangerous, because the inflammation of the internal Muscles of the *Larynx* doth more stop the passage, Whence *Hippocrates Aph.* 34. *Sect.* 4. saith thus; *If a Suffocation comes presently upon a Fever, and no Tumor in the Jaws, it is mortal.* Which Opinion he confirmeth in *Coac. & progn.* saying, that these kinds of Angina's do strangle in the same day, and in the second, third and fourth.

The second sort of Angina, though it be very dangerous, yet it is not altogether deadly as the first, because the inflammation of the external Muscles of the *Larynx* doth not make so great and so sudden a constriction. Of this *Hippocrates* speaks, 3. *Progn. text.* 17. thus: *Whatsoever Angina's do resemble others in pain, and make a Tumor and redness in the Jaws, are very deadly, and are of longer continuance than others if they be very red.*

The

The third kind is less dangerous, because the breath is less hindered than the swallowing from the inflammation of the internal Muscles of the Jaws: but the Swallow hurt is not so dangerous. Of this *Hippocrates* speaks in the Book above cited, *Text. 18.* in these words: *If the Jaws and Neck are red, these Angina's continue longer; but they are chiefly preserved who have red Necks and Breasts, and the holy fire without, not within.*

The fourth kind is least and safest, because the inflammation is furthest from the Throat. Hence *Hippocrates, Aph. 37. Sect. 6.* saith, *If a Tumor appear in the Neck in him that hath an Angina, it is good, for the Disease comes forth,* He confirms the same in *3. Progn. text. 20.* thus: *But it is most safe to have a Tumor or redness come forth.*

Hippocrates seems to comprehend all these differences in one sentence, *6 Epid. Sect. 7.* where speaking of the signs of an Epidemical Angina, he saith; *In the sum of all, to them that could only not swallow, the Disease was mild, and easie to be endured; but it was desperate to them who had withal a difficulty of breathing.*

If the matter causing the Angina be carried to the lungs, either the Patients die, or else turn fools or Emptick, that is, imposthumated between the breast and lungs; as *Hippocrates, Aph. 10. Sect. 5.* and *3. Progn.*

In an Angina that is strong, if the Patient foam at the mouth it is deadly, *Aph. 43. Sect. 2.* for it shows a great streightness about the Heart, and violent heat, from which the proper moisture of the lungs is squeezed forth, and carried to the mouth in a kind of froth.

They who have an Angina, if they spit not concocted matter, but a little, viscid, slimy and thick, are desperate, *Hp. in conc.*

The Tumors of the Jaws in an Angina suddenly vanishing without reason, are deadly, *Hip. in concis.* Without cause or reason, that is, without a precedent Evacuation by Art or Crisis; for it signifies the returning of the matter inward, from whence a more dangerous disease may be in the internal parts; or as it sometimes falls out, the matter returning to the same part makes a sudden Suffocation.

CURE. The Cure of the Angina is made by the same indications which are observed in the cure of all Inflammations, so the humor flowing to the part is to be revelled and repelled, that which is there to be derived and dissolved: but if it cannot be dissolved, it is to be digested and suppurated; all which may be done as followeth:

First, Appoint a slender, cooling and moistening Diet of Barley, Cream, Chicken Broth or Capon Broth, with cool Herbs and the like. If the Patient cannot swallow by reason of the narrowness of the Oesophagus, so that from thence you fear loss of strength and death; you may free him from that danger by putting down a Catheter into the Oesophagus, to which you may fit a Syringe, by which you may send Broth into the Stomach. The Practical Physicians use nourishing Clysters, by which some Nourishment may be carried from the Liver to the Meseraick Veins. Let his Drink be Barley Water, and other things used in acute Feavers. Let the Air be temperate and without extremity, for the cold will stop the Pores, and the hot will encrease the Defluxion and Inflammation. The Patient must lie with his Head high, and his Neck upright, that he may better breathe: he must avoid much sleep, as in internal Inflammations: for as *Hippocrates* saith, blood runs inward in time of sleep, and so the confluxion of Humors to the part affected will be encreased.

But since Angina is a most acute disease, and sometimes kills a man in one day, you must use great Remedies with much diligence. Therefore in what hour soever the Physician comes, let him presently let blood on the same side that is affected out of the Head-Vein; or if that appear not, out of the Median, to a pound, or a pound and an half, or two pound, as much as his strength will permit, for in this there is most hope: but you must not take all that blood away at once, lest the Patient faint, by which he would be in danger: but by degrees and intermission, at every third and fourth hour. This kind of blood-letting is so necessary in this disease, that it may be hindered by no contrary Indication. So in the flowing of the Terms or at any other time you must take blood in a great quantity. Of which we have a President in *Zacutus Lusitanus 2. Prox. admir. cap. 135.* of a Woman which was in her seventh moneth great with Child, and was taken with a Quinzy: but being seven times let blood in one day was cured. If the disease be not violent, you must first give a Clyster: but if otherwise, afterwards.

While Phlebotomy is iterated, make other Revulsions in the same day with Cupping-glasses, both dry, and with scarrification upon the shoulders and loyns, make frictions and painful ligatures upon the extream parts.

Having bled enough, fall to purging the next day, not expecting the concoction of humors, because the disease admits of no parley: therefore give one proper to the humor, nay, if the disease do constrain you, let blood, and give a purge, both in the same day: as *Trallianus* did by his confession, *Lib. 4. Cap. 1.* in these words: *I truly remember that I (when occasion required) opened a Vein in the*

the morning, and afterwards the Veins under the Tongue, and at night gave a purge of the extract of Scammony in Broth, and could scarce hinder strangulation for all that. And in another, after I had opened the Veins in both the Arms, I purged him the self same day.

Now your Purge must be of gentle things, if the Disease come of Choler, lest the humors should be moved too violently, and so come to the part affected. Also if the Inflammation come only of Blood, it is better to abstain altogether from purging. But if Flegm run with it, make stronger Purges, and give Agarick and Diaphœnicon with Senna: nay, in a strong flegmatick Angina you may rise to those Medicines which cause violent vomiting, and amongst the rest, the *Aqua Benedicta* of Dr. Rowland is the best, which given to the quantity of two ounces doth wonders, and for the most part cureth the Disease in the space of two hours. Moreover, it hath no evil tast, and so may easily be sipped up, which you cannot do in other Medicines, which by reason of their evil tast cannot be taken but at one draught by the Patient; therefore they can seldom be purged till the passages are a little opened. But that is supplied by often Clysters, and therefore they who cannot take *Aqua Benedicta* Rulandi, by reason of its heat or their wetkneis (because they must be strong who take it) nor any other Medicine, must use often Clysters that are very sharp to draw down the Humors.

For the same Revulsion, it is good to apply Cupping-Glasses to the Neck and Shoulders with scarification, Frictions and Ligatures to the lower parts, and to wash their Feet with hot Water.

But a Velicatory to the Neck behind, doth more strongly revel the humors flowing from the head which you must do presently after Blood-letting.

After Revulsions are sufficiently and diligently made, you must derive the humor from the part, and first open the Veins called *Ranule* unner the tongue, it is commended by *Hippocrates Galen* and the Modern Physicians, by which the blood which doth immediately cause the inflammation, is drawn forth.

The Ancients in a desperate Angina open the Jugulars, which though some late Writers have approved, yet it is out of fashion being thought dangerous by reason of the bleeding, which can scarcely be stopped, by reason of the largeness of the Veins. But Experience hath taught that this operation is not so dangerous if it be well administered. First then, bend the Patients head on one side as much as you can, till his chin almost touch his shoulder; then open the Vein without a Ligature with a small Orifice, according to its longitude, for so it will more easily cicatrize: and having taken a sufficient quantity of blood, bring the head to its natural position, and so sometimes the Blood will stop of its self. But you must presently apply *Galens* Emplaster described 5 *Meth. cap. 4.* made of Hares hair, Aloes, Frankincense and the white of an Egg, so the flux of blood is surely stopped. *Trallianus* reports in *Lib. 4. Cap. 1.* that he cured many of the Quinzy with opening of the Jugular Veins: and *Zacutus Lusitanus*, obs. 89. lib. 1. *Praxis admir.* tells of a Spaniard which was cured of a most violent Angina.

A Cupping glass with Scarrification under the Chin is good for derivation, by which *Zacutus Lusitanus*, obs. 88. lib. 1. *Praxis admir.* saith he cured a Woman of a *Cunaghe*, or Dogs Quinzy.

Scarrifications under the Jaws and upon the Neck are good, if deep, by which means *Benivenius*, saith in *lib. de abdit. morb. caus. cap. 38.* *Nicholas Rota* was cured of a desperate Angina, whose story *Sennertus* hath fully related, *Pract. Med. lib. 2. part 1. cap. 24.*

While the aforesaid Medicines are used, the inflammation of the Throat and Jaws is to be allayed with Topicks, and they are to be varied according to the time, as in other Inflammations, so in the first Repelling Medicines are good made into Gargarisms, that they may presently touch the part inflamed.

Take of Plantane, Nightshade and Woodbine water, of each three ounces: Syrup of Mulberries three ounces, Sal prunella one dram and an half. Make a Gargarism.

Or of a Decoction thus:

Take of Plantane, Sorrel, and the tops of Brambles, of each one handful: the grains of Sumach half an ounce: one Pomegranate beaten with grains and peel: red Roses one pugil, make a Decoction to a pint: Dissolve it in straining Syrup of Mulberries, and the composition made of Nuts, of each one ounce and an half, Sal prunella two drams: Make a Gargarism.

Concerning Gargarisms, you must observe, that they are to be suspected, because the parts inflamed are moved thereby which should be at rest: but you may remedy that, if you hold the Gargarism in the mouth, turning backwards, and move it.

Without Gargling, you may use the Spirit of Salt, Sulphur or Vitriol, which mixed with water to qualify their sharpness, are to be taken by little and little: for by passing through the part affected, they qualify its heat: and being sent from the Stomach to the Liver and Veins, it allays the heat of the Blood, which Remedy is also good in the Inflammation of the Jaws and Tonsils.

While you use repelling Gargarisms, you must apply outwardly to the Neck loosening and resolving Liniments, that the matter may be brought forth thus made:

Take

Take of Oyl of Camomel, Lillies and sweet Almonds, of each one ounce, Hens grease and fresh Butter, of each an ounce and an half: Saffron one scruple, Make a Liniment to be applied with greasy wooll.

This Liniment will assuage pain, which if violent, it may be qualified also with a Gargarism made of Milk, or an Emulsion made of the four great cold seeds, or of Mucilages of Fleabane and Quinces, drawn with Rose Water, adding Syrup of Violets, or Cassia dissolved in Whey, or in a Decoction of Marsh-Mallow Roots.

After the beginning of the Disease, when it encreaseth, or is at a stand, you must mix Digesters and Dissolvers with Repellers, which must be done the second day, because the Disease is most acute.

Take of the Leaves of Hyssop and Plantane, of each one handful: Liquoris, Raisins stoned, of each one ounce, fat Figs twelve: Red Roses and Barley, of each one pugil: Make a Decoction of a pint. Dissolve in the strained Honey of Roses, and Syrup of Violets, of each one ounce. Make a Gargarism:

Observe, That as long as the Inflammation continueth, you must mix some things that repel with Dissolvers and Astringents, lest the part which by Nature is soft, should be more relaxed, and made more fit to receive a Defluxion.

But outwardly you must apply Dissolvers most with a Swallows-Nest, which by the Opinion of all Writers hath a specific property against this Disease.

Take of the powder of a Swallows Nest, and of Album Gracum, of each one dram: the powder of Flower-de-luce Roots and Camomel, of each half a dram; Hen grease and Oyl of Lillies, of each one ounce, yellow Wax a little; Make a Liniment.

Or it may be made into a Cataplasme thus:

Take one Swallows Nest, Mallows, Violets, of each one handful: Althaa Roots, Lilly Roots, of each half an ounce; fat Figs three or four; Camomel and Melilot Flowers, of each one pugil; boyl them and beat them, then put to them Barley meal, Linseeds and Fœnugreek, of each three drams: Saffron one scruple; fresh Butter one ounce; Oyl of Camomel and sweet Almonds, of each as much as will make a Cataplasme to be applied to the fore part of the Neck.

In the mean while you may use Eclegma's, or things to be licked now and then, that the Matter which breaks forth of the part, or falls upon it from the head may be cleansed.

Take of the Powder of the Electuary of Diatragacanth frigid two drams: Simple Diaireos one dram: Sugar-Candy and Penides, of each half an ounce: Diamoron one ounce: Syrup of Jujubes as much as is sufficient. Make a Lohoch.

If the Tumor will not be discussed, but tendeth suppuration, which useth to be upon the fourth or sixth day, you must assist it with the Cataplasme aforesaid, and other Emollients and Suppuratives, and he must hold those Medicines at the same time in his mouth, which were prescribed formerly for assuaging of pain. Or,

Take of sliced Liquoris and Raisins stoned, of each one ounce: fat Figs six: Althaa and Quince seeds, of each two drams: the flowers of Camomel one pugil: boyl them in Hydromel. Dissolve in the straining, boyled Wine two ounces. Make a Gargarism.

It is also good to hold Cassia new drawn in the mouth, that by degrees it may dissolve into the Throat, for it assuageth pain, dissolveth and maturateth.

If the Tumor come to suppuration, which may be known by the decrease of symptoms, and will not break, let the sick man, or some about him, put their fingers into his mouth, and endeavour to break the Imposthume, which if it cannot be done, let his mouth be wide opened with a Speculum oris, and then open the imposthume, with a crooked incision knife called a Bistort. Then let the Patient hold down his Head, lest the Matter fall upon his Lungs; after wash the Ulcer with Barley Water and Honey of Roses, Water and Honey called Hydromel, or Wine and Honey called Oinomel; after this, dry it up with Allum-Water.

Others put a Wax Candle anointed with Oyl of sweet Almonds into the Oesophagus to break the Aposthume; which if they cannot do, they use a sharp wooden knife, or at last an incision knife.

Others touch it with the Oyl of Vitriol, which presently breaks it, Arculanus opens it with a Lancet fixed at the end of a stick, lest it should touch other parts. Faventinus commends the same, in these words; Take a little round stick, and in the end of it, fix a little sharp Iron as long as half a finger: then open the mouth, and put a stick between the Teeth, then let him open the Imposthume with the former Instrument: when it is open, let him bend forward with his mouth open, that the Matter may come forth.

Schenkenus out of Dovynetus, used to break an Imposthume with the Decoction of Agarick, and confirmeth it by the following History taken out of Dovynetus, Apolog. lib. 3. cap. 1. A Noble Woman called Gabriella Groufier, Lady of Saulton, being taken with a Quinzy in Autum, which is

is most dangerous; I remembred that I read in Aetius, lib. 15. cap. 6. That Agarick doth destroy hidden imposthumes, or draw them forth; presently I took Agarick and cut it, and steeped it in the decoction of Althæa with the fourth part of White Wine and Figgs, and a little Ginger, with a little Syrup of Marsh-Mallows, and gave it to the Lady to drink, commanding that she swallow it not down suddenly, but hold it in the mouth a little, if she would be cured: she obeyeth, and while I was talking with her, behold abundance of white stinking Matter came forth of her Mouth, in so much that her Daughter that held the Basin fainted, the other People ran away, others came and took away the Matter, others perfume the Room: which done I came to the Patient, and found her delivered from the impediment in her voice, difficulty of breathing, and her Fever; and out of all danger.

If the Matter seem to tend to the external parts, you must open it outwardly; which Lanfrank saith, he did with good success, *Chir. mal. doct. 2. tract. 3. cap. 5.* in these words: Because the Chirurgion is much confirmed by good experience; I will tell you what befel me in the City of Milane, with a Lady of fifty five years old, which had a flegmatick Quinzy in the whole Throat, inwardly and outwardly, but outwardly it appeared most swoln, and she could neither speak nor swallow: being sent for, I felt her Pulse, and found her exceeding weak; touching the part affected I found the matter very deep, and that she was more likely to be choaked, than that it should break either internally or externally: then I got ready my Rasor, and touched the place with my fingers, I found ripe Matter between the Chin and the Epiglot, and there I made a deep Incision, by which I drew forth a great part of the corrupt Matter, but willingly left a great deal behind, for a reason known; then her breath grew better, and pulse stronger; then giving her Broth, a great deal of it came forth of the Wound: then I invented a silver pipe which should pass the Wounds, being put into the mouth, and by which she should receive her nourishment, I used Mundifications and Maturationes to the whole Throat and Neck, till I drew out of the Wound a great piece of viscus Matter, and stinking like a Gut, as long as my finger, which was condensed by heat; which taken away, the place did no longer stink, and the Patient began to chear up; but I continued to mundifie, and after with Incarnatives and Cicatricsers, I heal'd up the Wound, and the Patient was cured.

Here may be related the History of Beniven before mentioned, of one in a Quinzy, who was left of other Physicians, and was cured by him with deep scarrification under the Jaws, and in the Neck, from whence much Matter flowed.

If the Aposthume break inwardly in the Mouth, let it be cleansed with Barley Water and Hydromel (as is said.) But sometimes the Ulcer is foul, and then you must use stronger, thus made:

Take of Scabious and Agrimony, of each one handful: Cypress-Nuts one dram: Flower-de-luce Roots, and round Birthwort, of each half an ounce: Myrrh half a dram: Red Roses two Pugils; boyl them in Hydromel to a pint; strain it, and wash the part ulcerated therewith.

This Decoction is very good to cleanse an Ulcer; but if it be not sufficient, use the Collyrium of Lanfrank, which is wonderful.

After it is well cleansed, you must endeavour consolidation with Bole-Armeniack mixed with Honey of Roses for an Eclegma, with Frankincense and Myrrh.

It comes to pass sometimes that the Inflammation decreasing, the Tumor will neither be dissolved nor suppurated, but grow harder; in which case you must use Emollient and Suppurating Cataplasms, made thus:

Take of Althæa and Briony Roots, and of the wild Cucumer, of each one ounce: Mallows, Pellitory, Origan, and the lesser Centaury, of each one handful; fat Figgs, six or seven; Linseed and Fœnugreek, of each one ounce; Boyl them, beat them, and strain them, and then add of the Powder of a Swallows Nest burnt, and of Album Gracum, of each three drams; Brimstone one drame; fresh Butter, and Ducks Grease, of each one ounce: Oyl of Dill two ounces. Make a Cataplasme.

For Conclusion, We will speak something of *Laryngotomia*, or cutting of the Wind-pipe, which Antient Physicians mentioned, and the Modern approve and confirm by experience. As when in a desperate Quinzy, when the Patient is almost choaked, an incision is made in the rough Artery, by which there is a passage for Air into the Lungs, and for vapors coming out of them. This Avicenna alloweth, *Fen. 9. lib. 3. cap. 11. Paulus, lib. 6. cap. 33. Rhasis, 3. continuentis. Alsabaravins, Avenzoar, Albucasis, and Halyubbas* in their proper Chapters.

Galen sets down the same out of *Asclepiades* in his Introduction, chap. 13. Of the Modern *Brassavolus* comment. in lib. 4. Of Hipp. concerning Diet in acute Diseases, Sect. 35. saith that he made this operation with his own hands, and had good success.

But

But this is seldom used by Chirurgeons for fear of disgrace through the death of the Patient: for men are more apt to make the operation the cause of death than the Disease, although the Physician hath been very careful, and foretold them the danger.

Moreover, In a desperate Angina the Lungs are often affected and full of humors, whence comes Suffocation, and then the Incision of the rough Artery will not profit. Which danger *Jerom Fabricius ab Aquapendente* observing, being a good Chirurgeon, saith, That he never undertook this Operation, nor any other in his time. But he confesseth it may be used, so that the Lungs and rough Artery be not full of filth, and he sheweth the manner of it in its proper Chapter most exactly, from whence any one may take it.

The End of the Sixth Book.

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THE

THE
SEVENTH BOOK
OF THE
PRACTICE
OF
PHYSICK.

Of the Diseases of the Breast.

The Preface.

B*Y this Name Thorax or Breast, we mean those parts onely which serve for Breathing: for although the Heart be contained in the Thorax, yet the Diseases thereof shall be set down in a Book by themselves. But in this we will only speak of those which hinder breathing, and hurt the parts of Respiration; as Asthma, Pleurisie, Peripneumonia or Inflammation of the Lungs, Empyema and Phthisis: and we have ordained proper Chapters for each of them.*

CHAP. I.

Of Asthma, or Difficulty of Breathing.

DIFFERENCES.

T*He Breath is hindred by divers Causes, either by sympathy or propriety of part. The hindrance of breathing by propriety called Idiopathica, comes from the Lungs distempered, and therefore every disease of the Lungs hurts their action, which diseases are either in the substance of the Lungs, or in the Vessels thereof.*

In the substance of the Lungs come Inflammations, Pimples, Imposthumes, Ulcers, and sometimes a drying and atrophy of the part; sometimes a serous watry humor is sucked into the spongy substance of the Lungs, and hinders their free dilatation; sometimes (though seldom) there is a Schirrus, a stone or hard swelling in them.

In the Vessels of the Lungs there are often Obstructions, which hindring the free passage of the air cause difficulty of breathing.

Breathing is hindred by sympathy or consent from other parts which are not only near, but remote: so the Membrane that goeth about the Ribs being inflamed, or the Diaphragma, or Mediastinum, the breath is hindred. So there is a great and often breathing when the heart is inflamed, as in Feavers: and on the contrary, when the Heart is cold, as in dying men, it is diminished and

and ceaseth: the same happeneth in swooning or Syncope, when the action of the heart and consequently Respiration ceaseth.

So in the Empyema, or Dropsie of the Breast, when matter or water is collected in the Cavity of the *Thorax*, the Dilatation of the Lungs and Respiration is also hindered.

So the Muscles of breathing being hurt hinder Respiration, as in Wounds and Tumors of them, especially in an Apoplexy, when the influence of the Animal Spirits is kept from them.

Moreover, the inflammation of the Muscles of the Larynx makes difficulty of Breathing in a Quinzy.

So also the Diseases of the Hypochondria do hinder Respiration by consent, as Tumors of the Liver, Spleen, Sweetbread or Pancreas, do by their weight draw down the Diaphragma to which they are joyned, and so hinder the motion of it. Also vapors and wind sent from those parts compress the Diaphragma and hinder its action, from whence comes a flatulent *Asthma*. The same happeneth by the abundance of Wind or Water contained in the belly of an Hydromical man, and compressing the Diaphragma. Lastly, Vapors coming from the Mother hinder Respiration, from whence this Disease is called *Suffocatio Hysterica*.

Among the aforesaid hindrances of Respiration, the *Asthma* is handled by it self, because the other depend upon other Diseases, they shall be mentioned in their places.

Although *Asthma* used generally comprehendeth in a large signification all kinds of difficulty of breathing, yet it signifies more specially that shortness of breathing which comes from the stuffing of the lungs, and the obstruction of the Bronchion or Gristles of the Windpipe, which of its self essentially is without a Fever, although sometimes it be joyned therewith. And again, it is subdivided into three other kinds: as first, *Dyspnœa*, the second called also *Asthma*, the third *Orthopnœa*.

Dyspnœa is a difficulty of breathing, in which the breath is drawn oftner and thicker, from the stuffing of the lungs. This is less than *Asthma* or *Orthopnœa*, because the matter obstructing is less, and it rather stops the substance of the lungs than Gristles or Bronchia: hence it is that there is no rattling at all, which comes from the commotion of the humors contained in the Bronchia, with the Air continually passing through.

Asthma is a great and often breathing, in which the Diaphragma, the intercostal Muscles between the Ribs and the Abdomen are violently moved, joyned with rattling and wheezing. For in a true *Asthma* properly so called, the Bronchia of the Lungs are filled with Flegm, which (as is said) being moved by the Air, make that noise.

Orthopnœa is a great difficulty of breathing, in which the Patient cannot breath but sitting, and with the Neck extended upright; and the aforesaid Muscles are not only moved vehemently, but also those of the Breast and Shoulders.

The names *Dyspnœa* and *Orthopnœa*, as we said of *Asthma*, are used commonly for all difficulties of breathing which happen in Pleurifies or Inflammation of the Lungs, or the like.

The same may be said of *Apnœa*, which doth not only signifie a depravation of breathing as the former, but also diminishing or abolishing thereof; and this happeneth in Syncope, Hysterical Passions and strong Apoplexies.

CAUSES. The humor which causeth an *Asthma*, is for the most part Flegm, which falls from the Head into the Lungs, and obstructs the Bronchia or Windpipe. Sometimes it comes from crude and serous humors brought by *Arteria Venosa* into the Lungs, and if these flow to the Bronchia, they produce a true *Asthma* with rattling; but if to the substance of the Lungs or smooth Arteries, they cause a Bastard *Asthma* without rattling.

This kind of *Asthma* which is unknown to vulgar Physicians (who will acknowledge no other cause but a defluxion from the head) is confirmed not only by not rattling, but from the thick and turbulent Urine of the Patient at that time, especially in the fit, because some part of those thick and crude humors in the Veins is sent to the Reins and Bladder. And some Asthmatical men are subject to stoppage of Urine, and when they are so, they are free from it. But when the Fit of the *Asthma* comes, the difficulty of Urine ceaseth, because the matter of the disease contained in the Veins, goes from one place to another. We have also seen some subject to a Flux in the Belly, who while they were so, were free from the *Asthma*, but when that stopped, the *Asthma* returned. Moreover, this kind of *Asthma* which is without rattling, is so directly opposite to bleeding, that when a Vein is opened in the Fit, as soon as it bleedeth, the Patients begin presently to breath better, and in the end, or after a little space, they are cured of their Fit. And finally, these kind of Asthmatical men are for the most part of an ill habit of body, and have an œdematous humor in their feet, which sheweth that the cause of the *Asthma* at that time came from the Liver, and is contained in the Veins, so that sometimes a Dropsie followeth in many. Hence *Aretæus* reckoneth a wind in the Midriff and belchings without reason among the signs of an *Asthma* at hand, which certainly do come from a crude matter moved in the Midriff.

That flatulent matter doth of its self sometimes produce another kind of *Asthma* which is called

Asthma flatulentum, or *Hypochondriacum*; when many thick vapors rising from the Hypochondria, do compress the Diaphragma and hinder its motion, whence comes great difficulty of breathing without ratling.

DIAGNOSTICK. The knowledge of this Disease and its kinds, may be by what hath been said. In a *Dyspnœa* the Breath is thick, without noise or anhelation, and with less trouble.

In an *Asthma* the breast is more heavy, the breath thicker and quicker, with anhelation, ratling and wheezing.

But in *Orthopnœa* the Patient cannot breath but with his Neck upright, and if he lie down he is ready to be choaked.

SIGNS. The Signs of the Causes are these :

If *Asthma* come from gross humors gathered in the Lungs, the difficulty of breathing comes by degrees, by little and little, and is continual.

But if the humors come at a distance from other parts into the Lungs, the difficulty of breathing is not continual. For albeit *Asthma* which comes from matter contained in the Lungs, useth to be increased by external causes, as Anger, Southernly winds and the like; yet in *Asthma* which comes from matter flowing from another part, the increase is more manifest. If this matter come from the Brain, there is a manifest Catarrh; but if no signs of a Catarrh appear, you must conjecture that the matter comes by the Veins to the Lungs, and the swelling of the feet and evil habit of the body called *Cachexia*, is a sign that the Liver is affected.

If a thick humor be contained in the *Bronchia* of the Lungs, the Respiration is with noise and a Cough; as also by spitting the Disease ceaseth or is diminished.

If the humor be in the Veins or substance of the Lungs, there is no noise, and there is seldom any spitting by Cough.

PROGNOSTICK. An *Asthma* is a Chronical Disease, and very hard to be cured, and often ends in a *Cachexia* or Dropsie. Young men are sometimes cured, and not without great labour, but old men never. Infants except they be speedily cured die by a Catarrh, which followeth.

They who grow crooked upon an *Asthma* or cough, die before they come to ripeness of age, because the gibbosity hindreth the convenient growth of the breast, nevertheless the Lungs get their due increase and bigness, but have not room enough to dilate themselves; from whence the heat of the heart being not sufficiently fanned, the Patient dieth.

A Pleurisie or *Peripneumonia* coming upon an *Asthma* is deadly, because the Lungs being weakened by a long disease, cannot resist so great a Disease coming thereupon and expel the matter.

CURE. The Cure of the *Asthma* is twofold, namely, in the *Paroxysm*, and out of it.

In the Fit presently you must open a Vein, a Clyster being given, if the blood do seem any way to abound, for when the Veins are empty of blood, the Respiration is more free. But if the Disease be elder, and blood hath been often drawn, it is better to abstain from bleeding, because by diminishing the natural heat it will encrease Flegm.

It is good to open the Veins in the Ancles in this disease coming by consent from other parts.

After bleeding, or if it be omitted as not thought fit, you must purge Flegm with the things prescribed in the cure of the cold distemper of the Brain, putting to them always things proper for the Breast as much as may be.

Vomits although disallowed by some in this disease, yet are they most convenient as frequent Experience hath taught, and sometimes the fit is taken away with a Vomit only.

Among these the chief is *Aqua Nicotiana*, or Tobacco-water given in the quantity of an ounce; and it may be made into a Syrup with Sugar: In want whereof you may use the salt of Vitriol, or *Aqua benedicta Rulandi*. Now the reason is excellent why Vomits do so much good in this disease, for while the thin humor falling from the head insinuateth it self into the *Aspera Arteria*, and the *Bronchia* of the Lungs, and the thick falls into the Stomach, and there is so fixed that it can scarcely be taken away: And while the weak heat of the Stomach doth stir the matter, thick vapors are produced, which puffing up the Stomach, compress the Diaphragma, and cause difficulty of breathing. Hence it comes, that when the Stomach is emptied, the fit ceaseth, or is much less. Moreover, an *Asthma* sometimes (nay often, according to *Sennertus*) cometh of crude humors about the Liver and in the Veins, which are carried by the *Vena Arteriosa* into the Lungs, and compress the *Bronchia* from whence cometh an *Asthma*. For the evacuating and revelling of these humors from the Lungs, a Vomit is very good. As also for this cause, the remedies purging humors downward are very excellent.

The juyce of Flowerdeluce doth gently move and purge downward, taken to the quantity of half an ounce, with one ounce of Hippocras, which *Platerus* in his Observations saith, he hath used with good success.

You may give two ounces of the juyce of Flowerdeluce, if the former did not work sufficiently.

Also

Also you may use sharp Clysters often for Revulsion: But they must be given in small quantities, lest by filling the Bowels the Diaphragma be compressed.

You must also use Frictions to the inferior parts, and apply many Cupping-Glasses thereon, as also to the Neck. Afterwards you must extenuate and dissolve the thick humors, and discuss the vapors that come from them. For which purpose you may give a spoonful of Cinnamon-water either by it self or with Syrup of Violets: As,

Take of Cinnamon-water two ounces: Syrup of Violets one ounce: or instead of that, mix with the Water one ounce of Oxymel to discuss the humors better.

It is also profitable to give three or four or five drops of Chymical Oyl of Sage, Rosemary, or Anis-seeds with a little Wine: or sprinkle therewith the Tablets of Diatragacanth frigid, and so let the Patient eat them.

Others commend one scruple of Saffron given in a spoonful of Wine. Also *Aqua Clareta* thus made, is very good:

Take of Aqua-vitæ four ounces; Water of Coltsfoot and Scabious, of each two ounces; Cinnamon six drams; strain them through an Hippocras Bag. Let them take two or three ounces.

Tobacco taken in a Pipe hinders the fit, so doth the leaf chewed, and also the smoke of Cloves in a Pipe.

In the mean time you must use expectorating Medicines, which bring forth the thicker matter upwards. As,

Take of the syrup of Horehound, Liguoris and Coltsfoot, of each two ounces; Oxymel simple one ounce. Mix them, and let him lick it by little and little.

Take of washed Turpentine one ounce; Ammoniacum two scruples: Flower of Brimstone one scruple; mix them into soft Pills, of which let him take one every second hour with half an ounce of the syrup of Hysop.

Take of the Oyl of sweet Almonds new drawn without fire, six ounces: Sugar Candy two ounces. Mix them for a Lambitive. Or,

Take of candied Elicampane three drams: Sugar Candy half an ounce: Syrup of Hysop and Horehound, of each one ounce: Ammoniacum dissolved in Aqua-vitæ half a dram. Mix them for a Lohoch. Or,

Take of Conserve of Violets and Elicampane, of each six drams: the powder of the Electuary Diatragacanth frigid, Diaireos Solomonis, of each one dram: syrup of Violets and Maiden-hair, of each as much as will make a Lohoch. Or,

Take of Althea roots one pound: Elicampane four ounces: Quinces or Marmalet thereof, sixteen ounces; boyl them in water till they are dry. Beat them and strain them, adding two Pints of Honey: boyl them again gently. Take them from the fire, and add of Cinnamon one dram; flour of Brimstone half an ounce: Liguoris perfumed with Musk and Rosewater, two drams. Make a soft Electuary; of which let him hold now and then as much as a Hazel-nut in his mouth: 'tis also very good to take half an ounce thereof Morning and Evening when the fit is off.

Also you must anoint the Breast with mollifying and discussing Oyatments and Liniments, thus made:

Take of the Oyl of Camomel, Flowerdeluce and sweet Almonds, of each half an ounce; fresh Hens grease one dram: the powder of Marsh-mallow-roots and Flowerdeluce, of each one dram: the Meal of Linseed and Fenugreek, of each two drams; Gum Ammoniacum dissolved in Wine one dram and an half; Wax as much as is sufficient. Make a Liniment. Or,

Take of the Mucilage of the Seeds of Quinces, Line and Fenugreek drawn with Scabious and Colts-foot-water, of each six drams: the Powder of Flowerdeluceroot and Hysop of each half an ounce; Saffron one scruple: Oyl of Lillies and sweet Almonds, of each two ounces: Wax as much as will make a Liniment.

If the fit be long, clap a Vesicatory to the hinder part of the Head.

Out of the fit you must stop the Defluxion, and so cut, cleanse and expectorate that which hath fallen into the Lungs.

For staying the Defluxion, all those Remedies are good which were mentioned in the Cure of the cold Catarrh.

But you must take a Caution concerning some of them.

First, In Apozemes, Syrups and the like, you must not make them too hot and dry, which by consuming of the thin parts, may make the remainder thicker, and so the parts will be worse; but you must rather mix moistners, as Raisins, Figs, Liguoris, Jujubes.

Secondly, Instead of Head-Medicines, you must use things fit for the Breast above-mentioned.

Thirdly, For the Derivation of the humors that abound in the Head, use Errhines, Sternutatories, Gargarisms or Apophlegmatisms, which last are not so proper, by reason of the nearness of the parts

part by which the humor runs to the Lungs. But Erthines and Sternutatories may be used safely.

Fourthly, To strengthen the head and dry it, Fumigations are there commended, which are not so proper in this, especially if taken in at the Mouth and Nostrils, because they make the breath shorter and bring the Fit: but with them you may air the Patients Caps without from the Chamber.

For to cleanse and expectorate the thick Humors that stick to the Bronchia of the Lungs, the Medicines already mentioned; or these following may be used:

Take of Elicampane-root and Polipody of the Oak, of each half an ounce: the Leaves of Origan, Calamints, Hyssop, Savory, Maiden-hair, Scabious and Colts-foot, of each one handful: the seeds of Marsh-mallows, and Cotton, and Carthamus, of each three drams: Liquoris and Raisins stoned, of each six drams. Fijubes, Sebestens and fat Figs, of each five: make a Decoction to a pint and a quarter of Hydromel: dissolve in the straining a pound and a quarter of white Sugar: make a Syrup well boyled for a Lambitive.

You may make a better and a cheaper thus:

Take of Elicampane-roots three drams: Spanish Tobacco one dram: infuse them a whole Night in six ounces of Aqua-vita: in the Morning strain them, and add of the best Sugar four ounces: stir it well upon the fire, and add of the Syrup of Erysinum or Colts-foot two ounces: Oyl of Sulphur as much as will make it sharp. Make a Lohoch.

These following are proper to unstuff and clear the Lungs:

Take of Ammoniacum, Bdellium dissolved in the Vinegar of Squills, of each half an ounce; Flower of Brimstone three drams; the Leaves of Coltsfoot and dried Savory powdered, Diaireos simple, of each half a dram; with syrup of Hyssop and Oxymel of Squills make a mass of Pills; of a dram whereof make six Pills, and let him take three of them two hours before Supper twice in a week. Or,

Take of Aloes Succatrine half an ounce; Myrrh and Ammoniacum, of each half a dram; Saffron half a scruple; Flower of Brimstone half a dram: with the Syrup of Coltsfoot, make a mass of Pills, of which let him take a dram two hours afore Dinner for some days.

Let the Water which is taken out of a hollow Briony root be distilled in Balneo Maria to eight ounces, whereof mix half an ounce of Spirit of Vitriol or Sulphur, let him take every day a spoonful fasting.

Take of Tobacco leaves, Hyssop, white Horehound and Maiden-hair, of each two handfuls; the Roots of Flower-de-luce and Liquoris, of each half an ounce; boyl them to a pint and an half, dissolve in the straining of white Sugar one pound; of the best Hony half a pound: make a Syrup, well boyled, clarified and perfumed, with a little Saffron and Cinnamon, let him take a spoonful or two every Morning.

The Oxymel and Syrup of Tobacco invented by Quercetan prescribed in his Dispensatory, is of the same vertue.

The Tincture of dry Tobacco is drawn with Aqua-vita, a little thereof mixed with Hony, and that held in the mouth as big as a Peale or Bean, swallowing it by degrees, this draws Flegm in abundance from the Stomach and Lungs.

Hogs-lice called *Mellipedes* or *Aselli*, in number twelve, put into a linnen-cloth, are to be steeped in White-wine, and then strained and so given to be drunk, and do in a short time cleanse the Lungs.

Oleum Sacchari doth powerfully dissolve thick glutinous Humors in the Lungs, and causeth expectoration: but the compound Oyl following is the best:

Take of the roots of Flowerdeluce and Elicampane powdered, of each half an ounce; the Pulpe of Dates and Raisins, of each three drams; Citron and Orange-peels, of each one dram and an half: Benjamin two drams: Saffron one dram: infuse them two days in the Spirit of Wine well rectified: then take of the Liquor by inclination, dissolve as much Sugar-Candy powdered as you can therein, then fire the Spirit of Wine stirring them continually till it comes to a Liquor as thick as Oyl, then mix as much Oyl of Sulphur as will sharpen it.

A Decoction of red Coleworts taken many days with a little Sugar, doth help the Asthma.

But the juyce of red Coleworts with Sugar of Roses or Syrup of Coltsfoot, taken in form of a Julep for many days is better.

The Spirit of Sulphur doth dissolve sligmy Flegm and open the Bronchia, if four or five drops are taken in Broth or convenient Syrup.

Turpentine is much commended for this use, given often two or three drams with the Oyl of sweet Almonds or Conserve of Violets: or you may make it into the form of an Opiate thus:

Take of Turpentine well washed in Coltsfoot-water one pound; fat Figs half a pound; Raisins four ounces: Oyl of sweet Almonds one ounce: mix them into an Opiate.

Saffron in Sawce is good for the Breast: also a Junket made of Mustard-seed and Hony doth expectorate.

Oxymel

Oxymel also with Agarick taken two Spoonfuls in a Morning doth purge the Lungs.

The flour of Brimstone made into Pills with fresh Butter, given three days together to one scruple, doth much help the *Asthma*. *Lac Sulphuris* doth the same better in eight Grains, which is the greatest Dose.

Also these Tablets following are excellent :

Take of the Pulp of Marsh-mallow-roots and of the greater Comphry, of each two ounces : Flour of Brimstone two drams : the flour of Benjamin half a dram : Sugar dissolved in white Lilly water eight ounces : make Tablets, which let the Patient hold often in his mouth.

The Decoction of an old Cock is commended, and it is thus made :

Take of the Roots of Elicampne and Flowerdeluce, of each half an ounce : Hyfop and Horehound dried, of each six drams : Carthamus-seeds one ounce : Annis and Dill-seed, of each two drams : Liquoris and Raisins stoned, of each three drams : the Powder of Fox Lungs prepared two drams. Beat them, and fill the Belly of an old Cock therewith : then boyl him in fifteen Pints of water till his flesh comes from his Bones. After it is well strained, set it in a cold place that the thickest may settle, and the thin may be taken off : of which let the Patient take six ounces with one ounce of Oxymel simple.

If you will make it purging, you may add two or three drams of Senna for every Dose, or half an ounce of Manna. Or if you will have it stronger, you may sometimes put in some Electuary that purgeth Flegm.

Platerus prefers the following preparation of a Cock before the rest.

Take an old Cock, kill him, pull him and draw him : stuff him with these things following : Fox Lungs fresh or prepared and dried, one ounce : Raisins stoned and Figs, of each two ounces : Elicampne one dram : Hyfop, Savory, Horehound, Thyme, Calamint, Pennyroyal dried, of each one dram : Fennel and Annis-seed, of each one dram : Carthamus-seeds bruised and Polypody, of each half an ounce : white Tartar one dram : Salt half an ounce : two Yelks of Eggs : fresh Butter half an ounce : Cut them and bruise them, and sew them into the Cock, boyl them till his flesh comes from his Bones, in a large Vessel, with so much water as you may need to add no more : then strain it, and put to ten pints, one pound of pure Honey that it may not quickly corrupt. Let him take a Porrenger full every Morning : in which let him dissolve Manna and new drawn Cassia, of each half an ounce, continuing it for a moneth and longer, which will be the better, if presently after he take a dram of Turpentine with Penides in form of a Bolus, or otherwise.

Ludovicus Septalius In his Practical Observations condemneth these Cock-broaths as unprofitable or hurtful : his Reasons are, because they do not answer experience, and have been used in vain by him and other Physicians of Milane. For by long boyling, the nitrous parts (by which those Broths are thought most to profit) do settle, and are lost in the straining : but the slimy, glutinous, thick and fatty, from the skin, feet, wings, muscous and nervous parts do remain. Hence the matter is made thicker and less fit to be expectorated.

But Septalius his experience must not be preferred before so many famous Physicians experience, both old and modern : For if it did not profit some which he and others have cured, many other things might hinder, as namely the evil disposition of the Patient, and contumacy of the Disease, or other things not well ordered which concerned the Cure, or the Medicine it self not well made. And whereas he saith, that the nitrous parts do fall to the bottom by long boyling, and are lost in the straining, it is ridiculous ; for only the earthly parts do settle, but the nitrous part once taken into the Liquor, is never separated. Hence it is that the longer you boyl Broth the saltier it is. But this Salt doth cut, extenuate and open, it is so far from incrassating being salt. Neither hath the fresh or other parts of a Cock such a glutinous substance as he imagineth, as you may find in Neats-feet or Calves-feet, but rather an attenuating quality, because it is full of nitrous substance. And if purging and altering Medicines be made according to the Precepts of Pharmacy and Art, they do leave all their strength in the Decoction because daily experience teacheth us, that such Broth of an old Cock doth purge. And if we may oppose our experience to that of Septalius, we can truly say, that we have found admirable effects of these Broths in violent *Asthma's* and Cholicks. But this we use to alter in these Broths, we give many draughts in a day lest it should be spoiled by keeping. But this is the Example of what we prescribe in this Disease :

Take of the Roots of Elicampne and Flowerdeluce, of each one dram and an half : Hyfop and Colts-foot of each one handful : Liquoris and Raisins stoned three drams : fat Figs four : Senna three drams : Polipody of the Oak and Carthamus-seeds bruised, of each half an ounce : Annis seeds one dram and an half. Boyl them with the third or fourth part of an old Cock : make a Broth for twelve or fifteen days.

By this purging Wine following, Platerus cured a Woman of a *Dyspnoea*, inclining to a Drop-sie.

Take

Take of Flower-de-luce-roots one ounce; Elicampane and Squills prepared, of each half an ounce: Horehound one handful: Elder-bark and Danewort, of each one dram: Senna one ounce and an half: Agarick two drams: Ginger one dram: shake them well together, and add of Wine four pints, boyl them a little: she drank hereof six days together when she went to bed, the Dyspnœa ceased, the Tumor vanished, and she was finely Cured.

But we must observe that we repeat purging often in this disease, under divers forms, lest Nature should be used too much to one Medicine: So cleansing, cutting and expectorating Medicines, and the rest are to be altered for the same reason.

Chap. 2. Of Pleuretis, or a Pleurisie.

DIFFERENCES.

A Pleurisie is either True, or Spurious, called a Bastard Pleurisie.

A true Pleurisie is the inflammation of the Membrane that goeth about the Ribs, or of the internal intercostal Muscles.

But a Bastard Pleurisie is the inflammation of the external intercostal Muscles.

There are also other pains of the Side and other parts of the Breast which are improperly called a Bastard Pleurisie, viz, When the *Mediastinum* is inflamed, the Lungs cleave to the Ribs, or when serous humors flow from the head to the Membranes of the Breast, or when wind doth tear the Muscles or Membranes of the Breast, or vapors rising from the Stomach as in Worms.

We have said, that in a true Pleurisie not only the Membrane *Pleura*, but also the internal Muscles are inflamed, because it is impossible but the inflammation of the Membrane should be communicated to the contagious Muscles.

Besides, Others do affirm that the Lungs are inflamed in every Pleurisie, and confirm their Opinion by Authority, Reason and Experience: The Authority is that of *Hippocrates*, lib. de loc. in homine, where he saith, that *Peripneumonia* is, when both parts of the lungs are inflamed: but if onely one part be inflamed, it is a Pleurisie. Also Reason may seem to confirm this, for the signs of a Pleurisie are also the signs of a *Peripneumonia*, namely a Cough, continual Feaver, difficulty of breathing, and spitting of blood.

Also the Prognostick and Cure are the same in both.

They say moreover, that they have found by experience in the opening of those who have died of Pleurisies, that their Lungs appeared always to be inflamed.

It is to be granted that in many the Lungs are affected as well as the *Pleura*, for the defluxion may easily fall upon both, because the lungs are fastned to the upper-part of the *Pleura*: but we must avouch, that often the *Pleura* alone is onely affected and not the lungs; or at least they are so lightly affected, that the Disease cannot be said to be an affect of that part. The Authority of *Hippocrates* in this is cast off by some as false, and contrary to many of his own Assertions, in which he acknowledgeth the *Pleura* only as the part affected, especially in his 1. lib. de morbis, where he often saith, that Choler and Flegm do stick to the side and cause vehement pain. But *Martianus* doth reconcile this, saying, That *Hippocrates* speaks in that place of *Peripneumonia*, which comes of a Defluxion from the Head, a portion whereof falls upon the *Pleura*, and he calls it by the name of a Pleurisie, that he may distinguish that which inflameth one part of the lungs, from that which inflameth both: For the same nature of a Disease being in both the Pleurisie and *Peripneumonia*, makes the likeness of Symptoms in both, being both from Inflammation, and nearly adjoyned,

And though many who have died of Pleurisies have been found to have their lungs affected, it is not to be concluded that it is so in all; for the most vehement Pleurisies which use to cause death, do many times turn into a *Peripneumonia*. But many do witness, and we have found by experience, that in many bodies dead of Pleurisies, the *Pleura* onely hath been found putrified.

It may be questioned, why the *Pleura* rather than other Membranes should be inflamed? But the Answer is from *Hippocrates*, 1. de morb. text. 124. according to the Division of *Salus*, where he saith, that the side is a very weak part, because it is naked from flesh in respect of other parts, and hath nothing to rest upon: therefore when the humors are moved and inflamed, their Defluxion is easily sent thither.

CAUSES. The matter causing a Pleurisie is for the most part cholerick blood which doth easily penetrate a thick Membrane: As *Avicen* speaking of a Pleurisie, saith, except the Humor be thin and cholerick it cannot pierce into the Membrane. Other Humors may also cause this Disease so they have a serous cholerick humor mixed with them for a Vehicle: I say other humors not Excrementitious but natural, which are contained in the form of blood, and are called either blood it self, or blood that is watrish or melancholy.

White, glutinating and round spittle, is evil, for the clamminess comes from the fiery heat which burneth the matter.

Green and rusty spittle is evil, but black worst of all: For it signifies the greatest adustion or extinction of the Natural heat.

A plentiful spitting which doth not abate the pain and other symptoms, is evil: For it signifieth great plenty of matter.

A Pleurisie in old men, women with Child, and in them that are Asthmatical, or have twice or thrice had the same disease, is dangerous.

Whosoever have the disease in the Side called Pleurisie, and are not cleansed of it in fourteen days, have an *Empyema*, or collection of matter, *Aph. 8. Sect. 5.* Others do extend it to the twentieth day.

A *Diarrhoea*, or Looseness coming upon a Pleurisie or *Peripneumonia* is evil, *Aph. 16. Sect. 6.* which we must understand of a Pleurisie, in which there is so great an inflammation that the Liver and Stomach consent therewith, or when the strength is so gone by the disease, that the retentive faculty is almost spent. But if the Pleurisy be not so great, and be in a body full of evil humors, the Flux of the Belly useth then to be healthful, especially if any signs of concoction went before.

A cholerick and plentiful Vomiting in the beginning of a Pleurisy signifieth health to come: For Nature being eased by that Evacuation of Choler, doth more easily overcome the disease.

If a *Peripneumonia* comes from a Pleurisie, 'tis evil, *Aph. 11. Sect. 7.* For it is the translation of the matter to a more noble part.

If the pain in the Pleurisie, and the cholerick spitting go away without reason, the Patient falls mad, *Hip. 3. Prorrh.* For the Choler is carried into the Head, and then the Urine looks thin and white.

A Pleurisie which followeth an old disease, or is in a body of evil habit, is dangerous.

Thick Bodies used to exercise, do soonest die of Pleurisies and *Peripneumonia's*, as *Hip. in Coac.*

And experience teacheth us, that almost all the Diggers taken with Pleurisies, do die thereof: because such strong Bodies fall not sick, but upon some great cause, and by reason of their thickness they cannot easily sweat, so that the disease cannot break forth.

They who in a Pleurisie have much noise in their Breast from the spittle, and their countenance dejected, with yellowness in their Eyes and mists: in these death is to be expected, *Hip. in Coac.*

They who in Pleurisies have cholerick tongues at the first, are judged in seven days: but they who have not much Choler upon their tongue till the third or fourth day, are judged about the ninth day.

CURE. For the cure of a Pleurisie, first the humor causing it is to be revelled, derived and discussed: and if it cannot wholly be discussed, it must be digested, maturated and expectorated: as also the Fever which is commonly essential to a Pleurisie, and not always symptomatical, is to be cured by proper Medicines. All which may be done by the following Remedies.

And first you must (after a Clyster, if the disease be not very violent) open the *Basilica* on the same side: but if it be violent, give the Clyster afterwards.

You must bleed every day till the pain or Fever grow less: nay, sometimes twice in a day, if the Pleurisie be very violent.

Hippocrates in his 2. lib. *de ratione victus in acutis*, Text. 10. gave an excellent rule to posterity most profitable in practice, that blood be let till the colour of it change: For if at the first second time it appear crude, flegmy or watery, it is to be continued every day, sometimes twice a day till it appear red or yellowish. But if it appear red in the beginning, you must bleed so often till it become livid or black, for that will signifie, that the last blood came from the part affected, or the neighbour Veins, which is altered by the part inflamed, and of crude is made red, or of red, black or blew by adustion.

Although the observation of that rule bring commonly good success, yet sometimes you must not expect that change of colour, but desist from bleeding; namely, when the strength is little, or the Patient is of a thin habit of body easily dissolved, or the weather very hot. And although blood-letting is excellent in the beginning of the Disease, yet if it be omitted, or done insufficiently, you may open a Vein after the seventh, ninth, or eleventh day, according to the Example of *Hippocrates* who in 3. *Epidem.* opened a Vein for Anaxion in the eighth day, either because he was not sent for sooner, or because that it was a most crude Pleurisy, which will scarce concoct till the eleventh day.

But when he expectorath freely, then you must abstain from Phlebotomy, which will stop his spitting, and bring him in danger of his life.

But blood letting is so necessary in the beginning of this Disease, that it must never be omitted, neither in old nor young, nor women with child, in Child-bed, or having their Terms: unto all which, Experience hath taught us, That Phlebotomy is good in this Disease. Yet you must observe some

Rules in bleeding of Women in Child-bed, or having their terms, which you may find hereafter in the Fifteenth Book, and the last Chapter concerning the Cure of Acute diseases in Women that lie in.

From the beginning of the Disease twice or thrice in a day, you must give cooling Juleps, which restrain the heat and boyling of the humor, and stop the defluxion thus made :

Take of Poppy Water four ounces, Syrup of Violets or Poppies one ounce ; Sal Prunella one dram. Make a Julep.

After the first Phlebotomy let the side be anointed with this Liniment, covering the part with greasy Wooll sewed into a linnen cloth.

Take of Oyl of Lillies, Camomel and sweet Almonds, of each one ounce ; fresh Butter and Hens grease, of each one ounce and an half. Make a Liniment.

Many put Wax to these Liniments, which is not good, because it stoppeth the Pores ; but the mucilaginous bodies do not, because they cool and astringe.

In a malignant Pestilential Pleurisie, you may add to your Liniments, Oyl of Scorpions of *Mathiolus*, or a little Treacle.

After the second bleeding, you must apply this Fomentation, made thus :

Take of Althaea Roots and Lillies of each two ounces ; the Leaves of Mallows, Violets and Pellitory, of each one handful ; Line and Fenugreek seeds, of each one dram : the flowers of Camomel, Melilot, Elder and Violets, of each one pugil. Boyl them together, with which foment the side that is pained in a Hogs Bladder.

After the Fomentation apply the Liniment aforesaid, to which in the progress of the disease, you may add more dissolving Oyls ; as of Dill and Flowerdeluce, as also the powder of Flowerdeluce and Saffron. And to the Fomentation add discussing Herbs, as Origan, Calamint, Hyssop and the discussing seeds.

Many other Topicks are very profitable against Pleurisies, which Authors relate ; as these :

First, anoint the part with Oyntment of Marsh-mallows, then lay on the powder of Cummin-seed, or a Colewort-Leaf heated at the fire, and anointed with the same.

Faventius mixeth the Oyntment of *Althaea* with Oyl of sweet Almonds, and after he hath anointed, sprinkles on the powder of Cummin-seeds, and layeth on a Colewort Leaf ; and this he commends highly.

Also the Cataplasm following is very profitable :

Take the Residency or Ingredients of the Decoction above mentioned for a Fomentation : beat them in a stone Mortar, adding of the Oyl of sweet Almonds, Lillies and Camomel, of each two ounces : Hens grease one ounce : Barley and Bean-flower, of each as much as is sufficient to make a Cataplasm.

Also a live Hen slit through the Back, and sprinkled with the powder of Flowerdeluce roots, being applied doth very well.

The Paunch of a Sheep laid hot to the part is a very good Anodine ; but the Lungs are better.

The Chymical Oyl of Wax being mixt with the Liniments, asswageth pain, and powerfully dissolveth the matter.

Hot Bread from the Oven, dipt in fresh Butter, and applied, doth very much dissolve the matter fixed to the side.

After he hath taken twice or thrice of the Julep aforesaid, you may use Pectoral Juleps, thus made :

Take of Barley one Pugil ; Liquoris and Raisins stoned, of each one ounce : Fijubes twenty : the four great Cold Seeds, of each three drams ; Bugloss and Violet flowers, of each one pugil : boyl them to a pint and a quarter. Dissolve in the Straining, Syrup of Violets and Fijubes, of each two ounces. Make a Julep for four Doses to be taken morning and evening.

Or if the Feaver be very sharp, and much watching, you may make the Emulsions following :

Take of Almonds blanched, and steeped in cold water, one ounce : the four great cold Seeds, of each half an ounce : Lettuce and white Poppy seeds, of each two drams : beat them in a Marble Mortar, pouring on by degrees the Decoction of Barley and Liquoris one pint and an half : strain it and dissolve in it Syrup of Violets three ounces. Make an Emulsion for three Doses to be taken morning and evening.

Some Practitioners in want of sleep give Narcoticks : as Syrup of Poppies, *Philonium Romanum*, and *Laudanum*, which are dangerous in this disease : for they stop spitting, and astringe and strengthen the Breast. From whence comes oftentimes sudden death.

But this must be understood of the whole dose of Narcoticks : for given in a very small quantity they do good in a vehement pain, a thin defluxion which causeth a Cough, and in want of sleep. In which cases I have often given one grain of *Laudanum* with good success, and sometimes often.

But

But you must note, That thin Humors make a true Pleurisie; and thick a Bastard Pleurisie.

Now this blood is carried by the Vessels which nourish the Breast, especially the *Vena Axillaris*, and *Azygos*; and if it offend either in quantity, quality or motion, it is cast upon the Membrane and Muscles adjoining.

DIFF. The Difference of Pleurisies is taken from the part affected, and the Causes.

In respect of the place of the pain, it is divided by *Hip. 2. acut.* into an ascending Pleurisie, namely, when the pain reacheth more to the Throat; and a descending Pleurisie, when it goeth down to the *Hypochondria*. Sometimes it is extended more towards the back, of which *Hip. 3. de Morbis* makes mention; and sometimes it comes more forward.

In respect of the cause and the Humor offending, it is called either Sanguineous, coming of Blood, Cholerick, Flegmatick or Melancholick.

There is also another excellent Difference made by *Hippocrates 1. acut.* where a Pleurisie is divided into a dry and moist Pleurisie. A dry one is that in which there is little or no spitting, not only in the beginning, but continuance of the Disease; of which there are divers causes, as the Crudity of the matter, the thickness and sliminess thereof, the weakness of the faculty, the obstruction of the *Bronchia*, or the vehemency of pain. But a moist Pleurisie is that in which there is abundance of spittle, from the beginning of the disease.

DIAGNOSTICK. The Diagnosis or knowledge of this Disease is by the signs, as saith *Galen*, 5. de loc. aff. cap. 8. and elsewhere; who reckoneth five.

1. A pricking pain of the Side.

2. A continual sharp Feaver.

3. Difficulty of Breathing.

4. A hard Pulse like a Saw.

5. An often troublesome Cough.

A pricking pain is chiefly in the Membranes; and comes from a Cholerick matter, and this pain possessing the side, stretcheth it self into the parts adjacent, one while to the Throat, another while to the *Hypochondria*, by the continuity of the Membrane, which covers the whole Cavity of the Breast. By this sign a *Pleuritis* is distinguished from a *Peripneumonia*, in which there is no pain or very little of the Side, except it be joyned with a Pleurisy.

A continual sharp Feaver hath its original from a Flegmon or Sanguineous tumor in some part near the Breast, and therefore is symptomatical: although sometimes an Essential Feaver be joyned with a Pleurisy, and gives it sometimes a being, for it often happeneth in the beginning of continual Feavers, that the blood boyling in the Veins is expelled by Nature unto some part which is most fit to receive it; as the Sides, and there it breeds an inflammation. The sign of this is, That the Feaver first seizeth upon the Patient, and the second or third day after the pain is in the Side. But when the Feaver is symptomatical, then the pain in the Side comes first, but the Feaver a little after.

Difficulty of breathing doth necessarily follow in this disease, because the parts inflamed cannot sufficiently distend themselves to draw in a great quantity of Air, which is requisite for the cooling of an inflamed heart.

The Pulse is hard, because the Membrane is affected and stretched forth, which also distendeth the Arteries, and they therefore make that difference of Pulse, called *Serratilis*, like a Saw; for when you lay many fingers upon the Arteries of the Pulse, one part seems to be more lifted up than the other, so that it seems to represent a Saw.

A troublesome Cough follows a Pleurisy, because Nature doth continually strive to expel that which is troublesome from the part affected: as also some of the matter sweateth from thence into the Lungs, which moveth the expulsive faculty, whence the Cough cometh.

There is also a spitting of blood as another sign, which is neither in all Pleurisy, nor at all times of the Disease; therefore it is not reckned as a proper sign. They who say that the Lungs are always affected in a Pleurisie, do affirm that the blood is spit from the Lungs, and they deny that it can pass from the Membrane about the Ribs to the Lungs, because it is very thick; and also the Membrane about the Lungs is of the same nature, and cannot therefore be pierced by that blood which is without the Vessels. But *Galen* doth clearly confute these, 5. de loc. aff. cap. 3. where he first shews that the matter contained in the cavity of the Breast may be taken into the Lungs, and be sent upwards, by two clear Examples. The one is of those who have received a wound in the Breast that pierceth into its Cavity, for if an injection of Honey and Wine be made into the wound, and it be presently closed at the orifice, in a little time the injection will be coughed up and spit forth, and the Patient will have the tast of it in his mouth. Another Example is taken from a Fracture of a Bone, when the skin is not broken; which while the *Callus* is growing, and the broken bones begin to glutinate, that blood which flowed to the part affected is carried forth to the skin and goeth through it, so that it moistneth and souleth all the rowlers and ligatures about the part. *Galen* also shews the manner how blood, matter or the like, being contained in the Cavity of the Breast may be taken through the Lungs,

namely, by the extream outward Orifices of the *Bronchia* or branches of the rough Artery, which are spread through the Lungs, and end in the superficies of them.

Although the orifices of the Vein Arterial, and Artery Venal are also carried to the superficies of the Lungs, yet the orifices of the *Bronchia* are more open and large than they. For by how much greater the Body or Trunk of the rough Artery is than the Trunk of the Venal Artery or Arterial Vein, by so much the greater are its branches than theirs, and its orifice than theirs; because all these Vessels are equally divided and distributed into the whole body of the Lungs. Moreover, the substance of the rough Artery and its *Bronchia* or branches are cartilaginous or grissy, from whence it is that they cannot close together so much as other Vessels; and their orifices are more constantly open, by which they can better receive the matter from the Cavity of the Breast.

But *Galen* teacheth, that the matter contained in the Breast is taken through at the time of breathing, when the Thorax is straightned; for then the Thorax doth press those things that are in the cavity of it, and drive them into the Lungs, so that some part of them at least is carried into the orifice of the *Bronchia*. Neither is the softness of the Lungs, which yield to a compression, and therefore cannot be forced to receive the matter any hinderance. For this softness is the cause why all the matter is not received: yet it is no obstacle but some part thereof may be received in, although the greatest remain in the Cavity by reason of the softness aforesaid. Let us add to this Doctrine of *Galen*, the wonderful providence of Nature, which hath found out ways, not only manifest, but also unknown, and sometimes incomprehensible, by which she useth to expel things hurtful: as we said of the matter in Fractures, which is purged forth by the insensible pores of the Muscles and of the Skin.

A Bastard Pleurisie is distinguished from a true, in that the pain is encreased when the Patient lieth on the contrary side, in a true Pleurisy; for then the part inflamed is pulled, and more distended by its own weight; but in the other, the Muscles external being inflamed, are compressed when the Patient lieth on the same side, and therefore he hath then greater pain.

The times of this disease, are known by these Signs following:

In the beginning of it, all the Symptomes are weaker, the pain and Feaver small, there is a dry Cough, and very little and crude spittle; In the encrease of the Disease, the Feaver and pain encrease, and there is more spittle. In the state or height the symptoms are more vehement, want of rest, dotage, pain of the head; and if the disease will be cured, there is much concocted spittle easily raised. In the declination, the spittle is perfectly concocted, a free spitting, and decay of all symptoms.

The signs of the Causes are generally taken from the temper of the Patient, the time of the year, the Country, the Diet and the like. But especially these things shew that a Pleurisy comes of pure blood, red and bloody spittle, a stretching and pricking pain, the fulness of the Veins, especially about the Forehead and Temples, redness of the whole face, a full pulse, thick and red Urine, sometimes with a blew Crown.

These Signs shew that it comes from Cholerick blood, yellow spittle, a burning Feaver, great thirst, a hard and quick pulse, a more acute pricking pain, great watchings and restlessness, bitterness of the mouth, a thin and very yellow Urine.

These Signs shew that it comes from Flegmatick blood, a white, viscous, or frothy spittle, sweet and slow in coming forth, a remiss Feaver little thirst, much spittle, a less, but heavy pain, more sleep, a little pulse, and not so hard, pale and thick Urine.

These Signs shew that it comes of Melancholick blood, black spittle, tough and slow in coming forth, a less pain and Feaver, a red Urine and dark, a dry Cough, a black and rough tongue, a belly bound.

PROGNOSTICK. The Prognostick is taken first from the remission or vehemency of the symptoms. For if pain, difficulty of breathing, and a Feaver be not great, they signify that the disease is gentle; but if the pain be great, and the Cough, and there is nothing raised up, and if the Feaver be violent with great difficulty of breathing, you must look upon it as a desperate Pleurisy.

A small pulse, quick and hard, foreshew death in a Pleurisy. And *Galen* saith, that none of these have been cited, *Gal. 4. de prasag. expuls. cap. 5.*

An exquisite Pleurisie in which nothing is raised by Cough, and when the spitting after it began is restrained, having still the pain and weight in the Side, is most dangerous. For it signifieth a very crude disease which will either shortly kill, or be long in Cure.

If the spitting begin with the first, or within three days, it signifyeth the disease will be short; but if it begin late, it will be long, *Hip. Aph. 1. Sect. 5.*

Yellow Choler mixed with Flegm or a little blood, appearing in the beginning of the disease with much spittle, is a sign of recovery.

Very bloody spittle is dangerous; for it signifyeth a ruption either of a Vein or of Flesh; from whence we expect suppuration: For it is thought that little blood doth breath through.

White

SIGNS. Also the Signs of a *Peripneumonia* do agree with the Signs of a Pleurisy. Two are the same, as a sharp Feaver, and a Cough; which sometimes is dry, sometimes moist, or with more Flegmatick spittle coloured with Choler or Bloud; and in the progress of time, the spittle becomes mattery when the matter of the disease grows ripe, and is concocted by heat, which sometimes comes to pass when the substance of the Lungs is not hurt; for if they ulcerate, a Consumption will follow.

So we may observe, That in sore eyes that are mattery, the humors are converted into Matter when the substance of the Eye is neither suppurated nor ulcerated.

The other Signs differ in respect of the part affected; the difficulty of breathing is greater than in a Pleurisy, by reason of the narrowness of the part inflamed, so that the Patient seems to be choaked, and cannot breath but with the head upright: For the part cannot be compressed by reason of the extension and repletion, or be more dilated, although it be much dilated, yet it takes in but little Air, therefore the respiration is quick and often, with rattling: This is augmented by a Feaver by which the breath is hotter, and the desire of cold Air is greater.

The Pulse is great, faint and soft, by reason of Flegm and looseness of the Lungs: yet there is some hardness by the Choler and blood: it is unequal from the compression of the Artery near the Heart, and in thick humors most: Sometimes it is intermitting, watery, vermicular, when the Lungs are rotten by too much moisture.

There is a heavy pain that reacheth from the Breast to the Back, sometimes it is between the shoulders, and sometimes under one only Shoulder, and from thence communicated to the Throat and Pap: Especially in a Cough, sometimes they feel no pain till they begin to Cough: sometimes there is also a pricking pain in the side when it is joyned with a Pleurisie as it often happeneth; Although the Membrane that covers the Lungs be of the same nature with the *Pleura*, as *Galen* taught *q. de loc. affect. cap. 5.* Yet there is not so great pain in a *Peripneumonia* as in a Pleurisy, for two differences which are laid down by *Galen* in the place afore cited.

The first is, Because the Nerves that go to the Membrane of the Lungs are few and very little; but they which go to the *Pleura* are many and great.

The other is, Because the Breast consists of Bones and Flesh, which will not be stretched, from whence the pain is greater.

But the Lungs are soft and yielding, and therefore their pain is less.

There is redness in the Cheeks, by reason of the hot Vapours which fly into the Head and carry with them the thinner blood. And this Colour is most in the Cheeks, because their Skin is thinnest.

There are besides these Signs, Heaviness, Weakness and a Tossing, with great sense of Heat in the whole Body.

The Tongue is yellow, and then it groweth red; a great thirst, swelling of the Eyes, and of the Veins of the Temples.

There is a Delirium or Doting, when it comes from Choler; and a Coma, when it comes from Flegm.

If the Disease comes of Cholerick blood, the spittle will be yellow, the heat and thirst greater, more difficulty of breathing with less Heaviness; the Air breathed forth is more hot: the Feaver is very violent, the Pulse swift, the Delirium great, the Water thin, yellow and clear, the age, time of the year, the Country and Diet before, do all attest for Choler.

If Flegm (which is most ordinary) produce the disease, the spittle will be white, viscous and frothy; the Feaver, burning of the Breast, thirst and dryness of the Tongue, will be less; the weight of the Breast greater; the Pulse slower and softer; the Age old; Habit of body, time of the year, and the Country, are cold and moist.

If the Disease come from pure blood, the Spittle will be red, the Urine red and thick, the Face more red, the Veins of the Temple more swollen, with heaviness and distention of the whole body, and other things that declare abundance of blood.

Lastly, If Melancholy blood be the cause, the spittle will be black or blewish, the Tongue black, from the beginning dry and rough; there will be also heaviness and great sighing between breathings; and all the signs of Melancholy predominating in the whole body.

PROGNOSTICK. The Prognostick of this disease is thus to be made:

A *Peripneumonia* is more dangerous than a Pleurisie, and for the most part deadly by reason of the necessity of Respiration, and the nearness of the Heart.

Celsus saith, That this kind of Disease hath more danger than Pain; and for the most part killeth.

But strength of body, less vehemency of symptoms, yellow Spittle, not mixed with much blood, raised in the beginning; a great Flux of blood at the Nose in the Critical day, or a Flux of the Belly which is cholerick and frothy, or a Flux of the Hemorrhoids or Terms, do shew some hope of recovery.

Impostumes about the Ears or inferior parts, being well suppured and kept open, do foretel recovery, as *Hip. in Progn.* If a *Peripneumonia* be turned into a *Pleurisie*, it is good, though it seldom happen, as *Galen* teacheth, *Progn. Aphor. i. Sect. 7.* because there is a going from a disease more dangerous, to one less dangerous. And this transmutation is known by a pricking pain of the Side coming thereupon, and by abating the shortness of breath.

But the vehemency of the disease and symptoms do declare a dangerous and deadly *Peripneumonia*, as want of spittle, continual watching, a *Delirium* or *Coma*, coldness of the extrem parts, ratling with great difficulty of breathing, blowiness and crookedness of the Nails.

Moreover, A *Peripneumonia* coming upon a *Pleurisie* is most dangerous, as *Hippocrates* teacheth, *Aph. i. Sect. 7.* because the translation of a humor from an ignoble part to a more noble, is evil; and the strength being spent by the disease foregoing, cannot endure the force of a new, and worse.

When the Urine is thick in the beginning of a disease, and after before the fourth day it becomes thin, death is at hand, *Aph. in Coacis.*

CURE. The Cure of the *Peripneumonia* is very like that of the *Pleurisie*, and there must be first bleeding as much as the strength will permit, once or twice in a day till the disease abate: for since the Lungs are then full of blood, and draw much from the heart, which is inflamed, you need not fear to let blood thrice, four, five or six times.

But if a *Peripneumonia* follow a *Quinzy* or *Pleurisie*, you may let blood more warily, because the strength is abated by the former disease.

You must let blood from the Basilica Vein of both Arms, if the whole Legs be equally affected, or from either, on that side the pain is, or on which the Patient feels more weight, or from which he supposeth he raiseth most spittle.

You must bleed women in this disease, first in the ankle vein; and after within six hours in the Arm; except it be so desperate that you are constrained at the first to bleed in the Arm: In which case, all the time you bleed, and a little before, you must apply Cupping Glasses to the Thighs.

But after, if the strength will not permit further Phlebotomy, you must apply Cupping Glasses to the Shoulders and Back, both dry and with Scarrification, as much as the Patient can suffer.

Also Emollient and loosening Clysters are good revulsives, but you must not use too strong purging Medicines therein, lest you bring a Flux of the Belly which is most dangerous in this disease.

If a crude Flegmatick humor coming from the Head cause this disease or nourish it, a Vescicatory laid to the hinder part of the Head doth very much good.

In the mean while use the Juleps and Emulsions prescribed in the cure of a *Pleurisie*. Anoint the Breast with Oyl of Violets, sweet Almonds, or with fresh Butter or the like, or with this Liniment.

Take of Oyl of Violets and Water-Lillies, of each one ounce and an half; fresh Butter and Mucilage of Fleabane seeds, of each one ounce; Oyl of Roses half an ounce; the Troches of Camphire one dram. Make a Liniment, Or,

Take of Oyl of Violets three ounces; the Oyl of Pompon seeds and Breast milk, of each one ounce; fresh Butter one ounce and an half. Mix them and make a Liniment.

You may provoke spitting with Syrup of Violets and Jujubes, and the rest prescribed in the Cure of a *Pleurisie*. As the Lohochs and Compositions there mentioned; given with this Caution, In a thin matter give things that thicken, and in a thick matter give things that attenuate.

Let his ordinary drink be Barley Water with Liquoris, as in a *Pleurisie*.

Purging is not good in this Disease, except in the declining of it, and you must make choice of such things then, as were prescribed in the Cure of a *Pleurisie*.

CHAP. IV.

Of Empyema, or matter in the hollow of the Thorax.

Although the word *Empyema* signifie all Suppuration, yet Custom hath prevailed so, that it is taken only for a Collection of matter in the Cavity of the Thorax.

CAUSES. Now there is a three-fold Cause of the gathering of matter between the Lungs and the Thorax.

The first is an Inflammation suppured, which happens in a *Pleurisie* or *Peripneumonia*; and when the Imposthume is broken, the matter falls into the Cavity of the Breast. The same may be in a *Quinzy*, as *Hippocrates* teacheth, *Aph. i. Sect. 5.* in these words, *Whosoever is freed from an Angina,*

But the use of this is most proper in the beginning of the disease; for then the humor flowing to the part may be restrained, and the encrease of the Disease hindered.

When the Cough is violent, and Nature begins to evacuate by spitting, let the Patient hold often in his mouth Sugar of Roses, Sugar-Candy or Penides, or the Tablets of *Diatragacanth* frigid, Syrup of Violets and Jujubes. Or this Eclegma following:

Take of Sugar-Candy and Penides, of each one ounce; the Powder of *Diatragacanth* frigid, two drams; Syrup of Violets and Jujubes, of each as much as will make a Lohoch: which let him take often with a *Liquoris* stick, or make it of Butter, Honey and Sugar, of each equal parts; the Oyl of Linseed, or of sweet Almonds, being fresh drawn without fire, mixed with Sugar, doth much help the Cough and pain in the *Pleurisie*, especially if it be drunk in Broth or any other Decoction.

If the spittle be thick, you must mix some attenuating and cutting Medicines, as Syrup of Colts-foot, *Liquoris*, Oxymel simple, Powder of *Diaireos*, and the like.

You must take these lying with the Face upward, for so they better go to the Lungs.

As the Disease encreaseth, you may use this restoring Medicine to strengthen.

Take of Conserve of Violets one ounce, Conserve of Borrage flowers, and Bugloss-roots, of each half an ounce; Confection of *Alkermes* two drams; Powder of *Diamargariton* frigid, and *Diatragacanth* frigid; of each one dram; Sugar of Roses as much as all the rest. Make a Composition covered with Gold to be taken often with a Spoon.

Purging is improper in a true *Pleurisie*, except it be in the declination; and then you may appoint this:

Take of Senna half an ounce, Anis seeds one dram, Bugloss and Maiden-hair, of each half an handful; *Liquoris* and Raisins stoned, of each three drams: the flowers of Bugloss and Violets, of each one Pugil. Boil them to two ounces; in the straining, dissolve of Rhubarb infused in Scabious Water with a little yellow Sanders, four scruples: the best Manna and Syrup of Roses, of each one ounce. Make of these a Potion.

In the whole time of the disease, let him take Barley Water for his ordinary drink, made with *Liquoris*, Poppies and Maidenhair; and let not his drink be actually cold, for it would hurt the Breast. Wine in this disease is poyson, and also sharp things which provoke Coughing, and by their astringency hinder spitting.

In the declination of the disease after purging, and when the Feaver is less, if the pain continue, you may apply to the part Cupping-glasses with Scarrification two days together. They may also be applied before the declination, after often bleeding: and if the pain still encrease and return, you may again let blood, and after Cup with Scarrification.

Zacutus Lusitanus having taken off the Cupping-Glasses, applied six Horfleeches with good success, as he witnessed, *Observ. 104. lib. 1. Praxis Admiranda.*

For the same purpose to discuss the reliques of the matter, having first tried Fomentations and Liniments, you may apply with benefit the Emplaister of Brimstone and Bayberries.

Besides vulgar Medicines, there are some proper and specific, namely the shavings of a Boars Tusk, the ashes of the Pizzle of a Bull or Deer, the flowers of red Poppies, or Coral prepared.

Quercetan in his Dispensatory commends an Apple made hollow, and one dram of *Francincense* put therein and roasted, which the Patient must eat, and drink three ounces of *Carduus* water after, then cover himself warm, and sweat. He will have this Medicine used after the third day, and affirmeth that many have been restored therewith.

The Flowers of Box-Tree do so much purge the Blood, that if a dram of them in powder be given with Poppywater, and a Vein opened an hour after, the blood will continue pure.

Horse-dung dissolved in *Carduus* Water and strained, doth powerfully disperse the pain and the humor in the *Pleurisie*.

White Hen-dung given in a dram of the same Water doth as much.

These Dungs have much Volatile Salt, which is very piercing and discussing.

You may make a Potion of them both thus:

Take of Hemp-seed one ounce: bruise them, then put to them, of the white Dung of a Hen, and of Horse Dung, of each half an ounce: dissolve them in five ounces of *Carduus* Water: strain them, and drink it.

The blood of a wild Goat given to ten drops with the aforesaid Water, doth powerfully discuss the *Pleurisy*: in the want whereof, you may give the blood of a tame Goat. But because the strength of him is little, you may give thereof to the quantity of one dram. You must prepare it thus:

Hang up the Goat by the Horns, and bend his hinder Legs backward to his horns, then cut out his Stones, and take the blood in a broad Vessel: dry it in the Sun in Summer, or at other times upon an Oven. It is far different from the Goats Blood in the Shops.

The Soot of a Chimney given to a dram is very good, but much rather the Spirit of Soot, described by *Hartman* in his Practice of Physick.

In an Epidemical Pleurisie, Sudorificks are to be given, such as are prescribed in malignant Fevers, which also ought to be made as proper for this Disease as may be.

A Diarrhæa coming upon a Pleurisie is dangerous, therefore you must give Syrup of Myrtles, which doth stay the Diarrhæa, and also expectorate: and this is to be mixed with other Syrups. Let the Belly and Reins be anointed with astringents, as useth to be done in all Diarrhæa's. Give Clysters made of Barley Water, which, as *Galen* saith, doth cool and astringe if it be boyled with red Roses, and also Yelks of Eggs be dissolved in it.

CHAP. III.

Of Peripneumonia, or Inflammation of the Lungs.

Peripneumonia hath the same essence with a Pleurisy, and is distinguished only by the part affected, because that is the Inflammation of the Lungs, and this of the Membrane that compasseth the Ribs. They differ somewhat in the matter, for a Pleurisie comes often of Choler, but *Peripneumonia* of Flegm: although all humors (as we said of a Pleurisy) may produce this disease, I mean humors which are like blood, and make up the mass of it. For as thick humors do hardly penetrate the thick Membrane called *Pleura*, but thin and cholerick easily: so on the other side, thick flegmatick humors do easily go to their soft and thin substance of the Lungs, and stick close thereto: but thin and Cholerick humors do easily pass by. But this hindreth not, but the Cholerick blood may sometimes cause the Inflammation of the Lungs, as *Hippocrates* 1. de morbis, describeth the *Erysipelas* or Cholerick Tumor of the Lungs, which comes from Cholerick blood thrown into the Lungs from the right Ventricle of the Heart by the Arterial Vein. But an œdematous Inflammation comes from flegmatick blood falling upon the Lungs by way of defluxion from the head. But only excrementitious Flegm, falling as a Catarrh from the Brain, can make a *Peripneumonia*, because it putrifieth in the Lungs, and attracteth blood, by the means whereof there is an inflammation, and this often happeneth in old Folk. *Mesue* saith, That this *Peripneumonia* comes rather of Choler, because the Lungs are nourished with Cholerick blood which cometh in great plenty to them by the Arterial Vein. To whom we answer, that fresh, thin and streaming blood made in the right Ventricle of the Heart is carried into the Lungs, which by reason of its quantity, is easily governed by Nature, and is sent by the Venal Artery to the left Ventricle of the Heart, and it seldom is altered from its natural condition, whice useth to make a *Peripneumonia*. But contrarily, a defluxion from the head cutting through the large passages into the *Bronchia* of the Lungs, if it there putrifie, will draw blood unto it, and make a *Peripneumonia*.

This *Peripneumonia* is sometimes alone without another disease, sometimes it followeth other diseases, as Quinzy or Pleurisie. *Galen* in Com. 11. Sect. 7. Aphor. teacheth, That a *Peripneumonia* doth follow a Pleurisie two ways: Either when a Pleurisie is turned into a *Peripneumonia*, or when an inflammation of the Lungs followeth a Pleurisie. This transpiration is when the former Disease ceaseth, and other comes: but if it comes upon it when it is white, the former remaineth.

CAUSES. Therefore the immediate internal cause of a *Peripneumonia* is blood, often flegmatick, seldom cholerick, and most seldom Melancholick. Which either comes from the whole body being plethorick, or Cachochymical, that is, full, or of evil habit; or from some part which is replete or distempered.

The external Causes of *Peripneumonia* and Pleurisie are the same; namely whatsoever defluxion can come to those parts: the chief whereof are, First, great exercise and violent motion of the body, especially after long rest and high feeding. For then the humor abounding from high diet, and kept in long rest, by exercise are dispersed, attenuated and heated, and are sent to the weaker parts, most fit to receive them, among which the Breast and Lungs are chief, because by strong exercise there is caused great and often breathing, and so they become wearied, and the substance of the Lungs being soft and loose, can easily receive the humors coming to them.

Secondly, Among the external Causes, the cold and Northernly Air is reckoned, when it comes suddenly after a Southern and warm: for the pores are opened by warm Air, and the humors are more fluid, which by the cold Air coming after, are compressed, and the humors sent to the weak parts.

Lastly, From *Hip. lib. of Air, Places and Waters*, the drinking of standing Pools and Lakes, begets the *Peripneumonia*; for saith the Divine Old Man, We observe diseases of the Lungs to be most in Marshy Countrys.

Angina, they have a Disease in the Lungs, and die within seven days; but if they live longer, it comes to Suppuration.

The second is blood falling into the Thorax, where by continuance it must needs come to Suppuration. So *Hypocrates*, Aph. 20. Sect. 6. *If blood be sent into the Belly besides Nature, necessarily it is suppurated.* But this Suppuration is not always true, and properly so called, as *Hypocrates* teacheth, but rather to be called a Corruption, of which there is matter like Quittor produced. This blood may come from a Vein wounded.

The third Cause is Flegm falling from the Head and other parts into the Breast, and there putrefying. So *Hypocrates*, Aph. 38. Sect. 7. *The distillations into the upper Belly are suppurated in twenty days.* *Galen* in his Commentaries, by the upper Belly understands the Breast. But the Flegm there putrefying doth not beget a true Pus or Matter, but something like it; as we observe in flegmatick Tumors, as Atheroma, Steatoma, Mulicris, which are kind of Imposthumes.

DIAGNOSTICK. The Diagnostick signs are two sorts; some declare the Disease to be in the beginning; others, that it's old and confirmed.

Hypocrates layeth down the three Signs of this Suppuration, beginning 2 Progn.

The first is when the Feaver groweth stronger, because the Pleurisie or Peripneumonea is not purged, for while the matter is turning into Pus, the Feaver is increased, *Hyp.* Aph. 47. Sect. 1.

The second is a quaking, which comes when the sharpness of the matter doth twitch the Membranous parts.

The third is weight and sense of heaviness in the part; for the Humor being contained in the Cavity doth weigh heavier than when it is diffused. *Galen* addeth, 4 de loc. aff. cap. 9. Fluctuation or routing: For (saith he) if any one is forced to turn in his Bed, and perceive something to flow down at that time, it is no doubt but there is much matter contained there. And you may often hear the Fluctuation, unless the thickness or plenty of the matter, which fills the whole Cavity of the Thorax do hinder the Fluctuation. To these you may add difficulty of breathing. For although after the Imposthume is broken, the pain of the side ceaseth, and the Diaphragma and Muscles of the Thorax move more freely; yet because the Lungs are oppressed with matter round about them, so that they cannot move more freely, and some part of the matter is sucked into the substance of the Lungs, from whence it is that the Lungs are so heavy, and the Bronchia is obstructed, thence is short breathing. For the purulent Spittle comes from the filth sent into the Lungs and Bronchia, which shews an Empyema; but this is not always a spitting of matter by reason of its thickness, which keeps it from coming to the Bronchia.

But a long lingering Feaver, partly putrid, partly Hectical, milder in the day and sharper at night, much sweat, especially at night, and a constant troublesom Cough, signifie that the Disease is old and confirmed; as also when the Cheeks grow red, and the Eyes hollow, the Nails crooked, the Legs swell, and Pustules break forth of the Breast by reason that the sharpest part of the matter breaks out of the Skin, these signifie the Disease confirmed.

You may know which side is affected from *Hypocrates*, 2. Progn. Text. 21. *If (saith he) an Empyema be onely in one part; you must turn the Patient, and learn whether he be pained, or hotter in one side than the other, and ask him if he perceives any burden to hang on the side that is upward; and if it be so, in which side soever the weight is, the Suppuration is on the other; as if heat and weight be in both sides, the Pus is continued in the whole Cavity of the Breast.* Also *Avicen* adds a Conjecture which he took from *Hyp.* 3. de morb. Apply (saith he) a linen cloth wet to both sides, and that will be dry soonest which lieth upon the part where the matter is contained. We may lay down another sign from our own Experience, which was not observed by Authors, namely, in the side affected there will be an Oedematous Tumor from a portion of the thinnest matter breathing through the Muscles of the Thorax. And when in suspicion thereof there appears such a Tumor, and blowing up of the skin on either side, you may certainly pronounce that the Empyema is there, and you may safely open the side.

PROGNOSTICK. The chief Prognostick Signs are given by *Hypocrates*, 2 Progn. Text. 63. in these words: *In Suppurations they chiefly escape whom the Feaver left the same day they broke; and they who presently desire Meat, and are freed from thirst, and have small and laudable Excrements; and if the Pus be white and even, and of the same colour, and when it is voided without pain or great coughing. But they die whom the Feaver leaveth not, or to whom seeming to leave them it returns again, and who are thirsty, have no appetite, have a loose Belly, the Pus green and livid, or frothy. They die who have all these signs; but they who have but some of them, some die, and some lie long sick.*

To these we will adjoyn these following Prognosticks:

They who have an Empyema, and by reason of the abundance of matter lift up their whole breast when they breath, are quickly choaked. *Galen.* 4. de loc. aff. cap. 7.

If an Empyema is not spit forth in forty days, it turns into a Consumption, which brings death. *Hyp.* Aph. 15. Sect. 5.

Suppuration on both sides of the Thorax, is more dangerous than in one; also that on the left-side is more dangerous than on the right, by reason of the left Ventricle of the heart, which is more grievously affected with the matter gathered on that side.

Whosoever are burnt or cut for a Suppuration, if the matter commeth forth pure and white, they escape, but if it be bloody, foul and stinking, they die, *Aphor. 44. Sect. 7.*

If the matter flow plentifully by Stool and Urine, and the Patient continue strong, it is a sign of recovery, although this Evacuation is very seldom, yet it is spoken of by *Galen, Aetius, and Paulus*; As also the way declared by *Galen* through which it passeth. *3 de loc. affect. cap. 4. and com. in Aphor. 30. Sect. 3.* In the first place he speaks thus: *This question doth not a little disturb the followers of Erasistratus, who think that there is nothing but Spirits in the Arteries. But we find no difficulty in it, because we know that the smooth Artery in the Lungs, so much Pus as it receiveth from an Imposthume broken, can carry the same into the left Ventricle of the heart, which after goes to the Reins by the great Artery.* In the last place he saith, That the matter contained in the Lungs doth first come to the Ventricles of the Heart, and then to the great Artery; or by the hollow Vein to the out-side of the Liver, from thence to the in-side, and so to the Guts. From which you may easily see the way by which an Empyema may be purged by Stool and Urine.

If the Patient grow better, and be almost cleansed, and then again raiseth stinking spittle, he dieth of that which remaineth and returneth. *Hyp. in Coac.*

CURE. For the Cure of this Disease; First, If you cannot hinder the Suppuration of the matter in the Thorax, you must further it by convenient Cataplasms. As,

Take of Marsh-mallow-roots three ounces: fat Figsten: Raisins Stoned one ounce: Camomel and Melilot-flowers, of each one Pugil. Boyl them all well, then beat them and strain them, then add the Flower of Line, Fennugreek-seed and Wheat, of each one ounce: Oyl of Lillies, sweet Almonds, and fresh Butter and Turpentine, Make a Cataplasma.

Also to help Concoction and Maturation within, you may give this following Apozeme.

Take of Marsh-mallow-roots, and of the greater Comfry, of each one ounce: Agrimony, Colts-foot, Scabious, and Maiden-hair, of each one handful: the four great Cold Seeds, of each one ounce: Annis-seeds one dram: Liquoris and Raisins of the Sun stoned, of each one ounce: the three Cordial Flowers and Camomel, of each one Pugil. Make a Decoction to one Pint and an half; dissolve in the straining Syrup of Colts-foot, Liquoris and Sugar candy, of each two ounces. Make an Apozeme perfumed with the Powder of Flowerdeluce-root one Dram, for five Mornings Draughts.

This following Eclegma is good for the same purpose:

Take of the Pulp of fat Figs one ounce: fresh Butter two ounces: Oyl of sweet Almonds newly drawn without Fire, one Ounce: Sugar-candy two Ounces: Starch two Drams. Make a Lohoch.

Venice-Turpentine washed with Barley-water given to the quantity of three Drams with the Powder of Liquoris, doth much profit for Maturation, Discussion and Cleansing.

But if the Empyema will not be spit up (as sometimes it will not) you must come to opening of it, which you must do between the fourth and fifth Ribs, beginning to count from below, with many Cautions, which are elegantly set down by many Chyrurgeons, especially by *Hierome, Fabricius ab Aquapendente*, in his Book of Manual Operations. But it is more profitable to open the Impostume which comes from a Pleurisie before it break, and the Pus flow into the Cavity of the Breast, which is known by the Tumor which is against the place of Suppuration, and by other signs of an Empyema. And then you must not open it below, and between the fourth and fifth Ribs, because if you make an Orifice far from the Impostume, there will no matter come forth; but you must open it in the middle of the Tumor, first applying a Caustick. But if no Tumor appear, it is hard to open it before the Impostume be broken.

But if any will try, he must find out the place in which the Patient finds weight, pain, and heat.

And it must be made between two Ribs upon the higher part of the Rib, because there is a Vein and Artery near the Inferiour, which you must observe in the opening of every Epyema. While the matter is taken forth by degrees, let the Patient take a Wound Drink twice a day, which will purge the Blood, cleanse the Ulcer, and hinder putrifaction. As,

Take of Sanicle, Bugle, Scabious, Betony, St. Johnswort, Carduus, Mouseear, Burnet, Periwinkle, Agrimony, Plantane, of each one handful: the Seeds of St. Johnswort, and Carduus Benedictus, of each half a Dram: Cordial Flowers one Pugil. Boyl them in Hydromel to a Pint and an half; Take six Ounces every time.

With this same Decoction Injections may be made into the Cavity of the Breast.

For his drink, let him take Hydromel, or Barley-water, or Spring-water with Sugar.

If after the Breast is opened the matter do not flow freely, you must draw it forth with the following Plaister, which doth powerfully draw from all Imposthumes.

Take

Take of Rosin of the Pine-tree that is fresh, clear and sweet, half a pound : Oyl of Bays and Turpentine, of each one Ounce : Gum Elemi two Ounces. First, let the Rosin and the Gum be melted and mixed : then add the Turpentine and the Oyls, and let them boyl a little ; then strain them. Make a Plaster thereof for the part : change it once a day in Winter, and twice in Summer ; cut it in two or three places that the matter may pass through.

Chap. 5. Of the Dropsie in the Breast.

THE Dropsie in the Breast is like to Empyema which comes from a serous Humor contained in the Cavity of the Breast. The common Practitioners do not describe this Disease, although Hippocrates doth it excellently, 2. lib. of Diseases, under the Title of a Dropsie in the Lungs, thus : There is a Fever and a Cough, quick breathing, the Feet swell, the Nails are contracted, and they suffer as they do in an Empyema, but not so violently and longer ; and if you pour any thing in or apply a Fomentation or Fumigation the matter doth not follow ; and by this you may know that it is not matter but water that is within : and if you try a long time to discover it by your Ear laid to his side, it boyls inward like Vinegar ; after that it goes into the Belly, and then he seems to be recovered : But in progress of time the Belly is inflamed, and that endureth the same, or more : some swell in the Belly, Cods, and Face. Thus Hippocrates.

This Disease seldom hapneth, yet it is more often than it is discovered, for it is not ordinarily known. Many Relations of it are given by Schenkius, by which it appears that he never saw it till their Bodies who died of it were opened by him. Therefore we will describe it exactly that a Physician may not be deceived.

This serous Humor either may be bred in the Lungs by the proper fault of them, as when it doth not concoct its own nourishment, but turneth it into water, which by degrees is sent to the Cavity of the Breast, or by bladders breaking upon the Lungs, which are mentioned by Hippocrates in his Book of Internal Diseases, and also by others. Or it is sent into the Breast from other parts, as from the Hypochondria especially, when the Liver or the Spleen are distempered with a Schirrus or other Disease by which much water is produced. This watry Humor is either sent by the Veins to the Lungs which are weak, or else from the Cavity of the Abdomen it is carried to the Breast by insensible Transpiration. Now experience teacheth that this serous Humor may be sent from one belly to another, because the Dropsie of the Breast turns into a Dropsie of the Belly, and a Dropsie of the Belly into the Breast, from whence they are suddenly choaked.

DIAGNOSTICK. The Diagnosis of this Disease (as hath been said) is very hard, for almost all the signs are the same with the signs of other Diseases of the Breast. But a noise of water in the breast is only peculiar to this Disease and to Empyema, which may be heard within, if the body be moved to and fro, or be taken upon a strong mans shoulders and shaken.

But all the signs which we mentioned from Hippocrates taken together, may make a certain Diagnosis : To which you may add this one, as being most evident to shew the Disease, and by which the Dropsie in the breast is only distinguished from other difficulties of breathing : Namely, when at every first beginning to sleep this difficulty of breathing cometh and hindreth it, and by night increaseth, and towards morning by degrees abateth.

To these you may add sometimes a pain of one Arm or Shoulder, which comes either from the Humor falling from the Head into the Breast, part whereof falls into the Arm being near, or from the water contained in the breast, and sent to the Arms by the Axillary Veins of Arm-holes, or from the Refrigeration of the Intercoastal Muscles, from which the Nerves are derived to the arms, or from some other sympathy by way of vicinity : For Hippocrates in Coacis observed this Sympathy of the Breast and Arms, If those parts or Lobes of the Lungs which hang towards the right and left side of the Chest be vehemently inflamed, so that they sway or rest upon one side of the Chest or Ribs, the watry matter breaks out on the same side of the Body where the Lungs lye or rest.

PROGNOSTICK. This is a great Disease and hard to be cured, for they who have it, have their natural heat very weak, and their natural strength also, from some great Disease in the bowels ; from whence it comes that when the Humor collected in the breast is evacuated by Medicines (which is very difficult) there comes more in the place of it, from whence the Disease is not only nourished but increased ; so that at length by abundance of water they fall into the Dropsie called Ascites, yet in the beginning before the bowels are much hurt, it sometimes may be cured.

CURE. For the Cure of this Disease, you must observe two Indications, namely, That the matter contained in the breast be evacuated, and that the breeding thereof again be hindered.

It is a hard thing to empty the water contained in the breast, because the ways are not open by which it should be brought forth. Therefore Hippocrates doth advise to open the Side, which because we never see practised, and never read in any Author that it was done with good success, we cannot

absolutely

absolutely approve ; and we may speak of it as we have of the opening or tapping for the Dropsie in its proper Chapter.

Therefore it is better to attempt this Evacuation with Medicines that expel Water, for which purpose all those Medicines prescribed by us in the Cure of the Dropsie are good. Where we must observe diligently, That if when the Disease is confirmed, and much serous Humor is gathered in the breast, you give a violent purge, those Humors will be much moved, from whence there will come a great suffocation which will kill the Patient ; therefore be wary, and give your Medicine in a less Dose, though oftner, and mix them with strong Openers that purge Urine, that both the passages may be unstopt, and the matter carried to the Uretors.

Among Water purges the Minerals are best, as Mercurius Dulcis, and Mercurius Vitæ so corrected that it may work only downward.

Also Diureticks alone, or Medicines that provoke Urine, often used are good, because they turn away the matter coming to the breast to the bladder, and by way of consequence they bring it also from the breast.

Also Sudorificks are profitable to the carrying away of this serous matter ; and we saw a man of sixty years old, who by the use of a sweating drink made of Guajacum and Sassa, taken fifteen days together, and by provoking sweat with the vapor of the Spirit of Wine, was cured.

Cauteries applied to make Issues in the Thighs and Legs, are also good to take Water from the Breast.

You may hinder the breeding of this Water, by amending the faults of those parts which send this matter.

So if the Lungs be in fault you must apply proper Medicines unto them : if the Liver or Spleen be troubled with Distemper, Obstruction, Schirrus, or the like, you must cure them by Medicines taken out of their several Chapters.

But those things which do strengthen the Vital and the Natural Parts will always agree, such as are prescribed in the Cure of weakness, Dropsie, and Flux of the Liver.

Chap. 6. Of Hæmoptysis, or Spitting of Blood.

Although usually the Word *Hæmoptysis* doth signifie all manner of Spitting of Blood from what part soever it doth proceed, whether from the Breast, Lungs, Rough Artery, or from the Jaws, Gums, Palate, Uvula, Brain, Stomach, Liver and Spleen. Yet *Galen lib. 1. de cris. cap. 5.* saith, That *Hæmoptysis* properly is taken for that spitting of blood which comes from the Vital parts, as the Breast, Lungs, and rough Artery.

It is a Symptom in the Excretion of those things which are wholly besides Nature.

CAUSES. But since every Symptom depends upon a Disease as its next and immediate Cause ; the Cause of this will be either an Organical or a Common Disease. The Organical is twofold, the opening of the Vessels called in Greek *Anastomosis*, and Rarification called *Diapedesis*. Also the Common Disease is twofold, namely the breaking of the same Vessels called *Rexis*, and the Corrosion of them called *Diabrosis*.

The Internal cause immediately producing the Disease is a great quantity of blood.

Blood exceeding in quantity will either break the Veins, or open their Orifices, and so make either a *Rexis* or *Anastomosis*.

The same blood offending in quality, as when it is too hot or too thin, will come forth by way of *Anastomosis* ; but because heat will open the Orifices, and the thinness causeth it to flow more easily : Also the same qualities make a *Diapedesis* or Rarification ; for heat doth make thin the Tunicles of the Vessels, and the thinness of blood causeth it to flow more easily through the Pores of those Tunicles.

Lastly, The sharpness of the blood doth gnaw the Tunicles of the Veins and exulcerate them, and so cause a *Diabrosis* or Erosion ; this also is caused by sharp or salt Humors which distill from the Head, or coming from other parts to the Lungs.

Moreover, the External Causes do concur for the Production of this Disease either mediately or immediately ; it is produced immediately by a stroke, fall, wound, or the like ; but they produce it mediately which increase blood, heat, and attenuate ; as high and hot feeding, stoppage of Terms or Hemorrhoids, too much exercise, great clamour, heat, long staying in the Sun, and many others.

Moreover, External Cold may cause the Ruption of the Vessels, by making their Tunicles harder and not so easily to be extended ; but with this must be joyned strong motion, or abundance of Humors.

DIAGNOSTICK. The Diagnosis of this Disease is difficult in respect of the Part from whence it comes : yet *Galen* declareth it in few words, *4. de loc. affect. cap. 6.* namely, Blood coming

coming from the Gullet and Stomach is put forth by Vomit; when it comes from the Vital parts, by Cough; from the Jaws and Wealand by Hawking; from the Mouth by simple spitting which wants a more clear explication when blood comes from the Head to the inner-parts of the Wealand and the Jaws, it comes forth by Coughing, and so it doth when it comes from the Breast, and therefore it is distinguished by this sign.

Moreover, When blood coming from the Lungs or Breast is brought out by Coughing: there are other necessary signs from which the parts affected may be distinguished.

First therefore when blood comes from the Head, although it sometimes cause Coughing, yet the greatest part thereof is put forth by a Hawking, and there is a tickling in the Palate as in a Catarrh, as also when you look into the Palate it appeareth to be foul and bloody, and it is more confirmed to be from the Head, if at that time the Nose bleed.

When the blood comes from the Lungs, it is distinguished from that which comes from the breast by *Galen* in the place mentioned; for that which comes from the Lungs is froathy, in a greater plenty and without pain; but from the Breast it is black, little, and with pain.

But it may be objected, That blood coming from the breast is carried by the lungs, and by consequence is froathy, because it is mixed with the air taken in, as that which comes immediately from the Lungs.

And *Avicen* saith, That blood from the breast is froathy. I answer, That it is one thing to spit some froath mixed with the blood, and another thing to spit nothing but froath, which only comes from the substance of the Lungs.

Therefore you may observe three degrees of froath; for either it is wholly froathy from the flesh of the Lungs, which it resembleth, for the lungs are but a congealed froath; or it comes from the Vessels of the Lungs and is very froathy; or it is mixed with froath and comes from the breast.

But the most certain sign that it comes from the Lungs is taken from the pain which is fixed and continueth where the solution of continuity is.

And you must observe, That blood is sometimes sent from the Liver, Spleen, Matrix, and other parts into the Lungs, and spit forth; so that the breast is not primarily, but secondarily affected, which thing is hardly to be discovered.

But we may conjecture of it, namely, if any of the aforesaid parts be troubled with pain, inflammation, or any other distemper, and there neither is, nor hath been any other fault in the breast.

You may find out the signs of the causes from what hath been said: For if blood be brought by the Anastomosis of the Veins, there went before some cause that opened the mouth of the Vessels, then blood is thrown forth in a pretty quantity and without pain. But if it come forth by Diapedesis or Rarification, then it is watrish, little, and without spots.

When it breaks forth by Raxis or Eruption, it is very much, if a Repletion went before, or any External Cause that might break the Vessels.

Lastly, If it come by Diabrosis or Corrosion of the Vein, there went before salt and sharp Distillations from the Head; the blood is salt and sharp, and ill-coloured, and some Causes of sharp humors were formerly: In the beginning there is but little blood, but after when the Corrosion is greater, then is much blood spit forth, and at last there is a spitting of matter.

PROGNOSTICK. *Hippocrates* Aphor. 25. Sect. 4. doth lay down the Prognostick of this Disease, as what kind of blood soever is spit out of the Mouth from any part below, it is evil; for every opening of a Vessel which letteth blood come forth so is dangerous, especially in the Lungs, concerning which his *Aphorism* chisly speaks.

But sometimes such spitting of blood may be without hurt, namely, when Nature by a Critical Motion doth purge the superfluous blood by those ways. And it is observed that Women which have had their Terms stopt without harm at certain times spit blood from their Lungs by the Anastomosis of the Veins.

In respect of the Causes: Diapedesis or Rarification is less dangerous than Anastomosis or Aperature and eruption is most dangerous; for unless it be healed within three or four days there cometh an Inflammation, which being suppured produceth an Ulcer, from whence cometh a Consumption: Whence *Hippocrates* saith, Aphor. 15. & 16. Sect. 7. That from spitting of blood there followeth spitting of matter, and from spitting of matter a Phthisis or Consumption.

But Diabrosis or Corrosion is most dangerous, and *Galen* saith, That it is incurable by reason the Ulcer that followeth it, is incurable.

CURE. The Cure of Hemoptysis or spitting of blood, is wrought by Revulsion of blood from the Lungs by correcting the evil quality thereof, and closing the Vein that is opened by Astringent and Conglutinating means.

First therefore let blood from the Arm on the same side on which you find heaviness or pricking, in a small quantity often, and at a distance for the better Revulsion.

After that, open the Vein in the Foot, and so you will make a Revulsion to a farther distance, and this

this will be more profitable if the Disease come from obstruction of the Terms. If the Patient be subject to the Hemorrhoids, you must open them with Horse-leeches.

Also apply Cupping Glasses with Scarrification to the Shoulders and Back, or without Scarrification to the Groins and under the Ribs. Rub and bind the extreame parts, and in all the time of the Cure, at some distance apply often those Cupping Glasses to the Hypochondria, or under the Ribs.

And let him take the following Julep thrice every day.

Take of Plantane and Poppy-water, of each two Ounces: Syrup of dried Roses one Ounce: Lapis Prunella one dram. Mix them for a Julep.

Lastly, You must often purge the serous and cholerick Humors which make the blood more thin and fluid with Medicines that have an Astringent Virtue: As,

Take of Rhubarb one Dram: yellow Myrobalans half a Dram: Tamarinds half an Ounce: Infuse them in Plantane-water; strain it and dissolve in it Powder of Rhubarb half a Dram: Syrup of dried Roses one Ounce. Make a Potion.

Then give Medicines that close the Orifices of the Vessels by an Astringent quality, but such as will not retain the blood in the Breast by too much astringion; therefore mix sometimes with them such as dissolve and expectorate the congealed blood which is out of the Vessels.

Of all which these following are the best.

Take of Bole-armeniack, Terra Sigillata, both sorts of Coral, Blood-stone, of each half a Dram: Sugar of Roses half an Ounce; with one White of an Egg well beaten with Rose-water. Make a Lohoch.

Or you may make one more speedily, and more pleasant thus:

Take of the Water of the White of an Egg well beaten two Drams: Sugar of Roses one Ounce: white Starch three Drams. Mix them for a Lohoch. Or,

Take of Conserve of Roses and the greater Comfry, of each one Ounce: Bole-armeniack and Terra Sigillata, of each one Dram: With the Syrup of dried Roses make an Opiate to be often held in the Mouth and swallowed by degrees.

Take of Conserve of dried Roses, Troches of Amber, and of sealed Earth, of each half a Dram: prepared Pearls one Scruple: Sugar of Roses as much as all the rest. Mix them and let him take a spoonful thereof one hour before Meat.

Take of the Juycce of Purslane twelve Ounces, Sugar eight Ounces: boyl them to a Syrup, of which let him often lick.

This is the best for spitting of blood: And if you want Purslane, you may take Plantane.

The Syrup of Comfry according to Fernelius, prescribed by Blanderon, is good for the same.

Take of Tarrow with the white Flower, and yellow Flower, of each two handfuls: Green Roots of Tormentil with the Leaves, if they may be had, otherwise of the dry, one Ounce: the greater Burnet one handful: Conserve of red Roses half a pound: Spring-water sixteen pints: put them in a glassed Pot covered and luted, that the Vapors may not come forth: Then boyl them in Balneo Mariæ sixteen hours; keep the straining in a Glass, and take six Ounces thereof every Morning, Noon, and Night.

Take of the Troches of Amber one Dram: Plantane and Rose-water, of each one Ounce and an Half: Syrup of Myrtles and dried Roses, of each half an Ounce. Mix them for a Julep.

Take of Spirit of Vitriol half a Scruple: Plantane-water four Ounces. Mix them for a Potion.

This presently stops blood coming either by Cough or Vomiting.

Two spoonfuls of Syrup of Coral taken every day, is good against all manner of bleeding. But the Tincture of Coral drawn with Juycce of Lemmons, is more powerful.

Quercetan in his Dispensatory, prescribeth this following Water against spitting of blood, which is very excellent.

Take of the Roots of Snake-weed, Comfry and Tormentil, of each one Ounce: Knot-grass, Tarrow, Veronica, Winter-Green, Sanicle, Shepherds-purse with the Roots, of each one handful: Bramble-tops and Mastick-wood, of each half a handful: Sumach and Myrtle-berries, the Seeds of Plantane, Barberries and white Poppies, of each six Drams: the Flowers of Water-Lillies, Guerds, Quinces and red Roses, of each two Pugils: Bruise them and mix them; then steep them four days at the fire in the Juycces of Plantane, Purslane, Sarral and Agrimony, of each two pints: Then strain them well, and put to them Acacia and Hippocistis, or Conserve of Sloes, of each two Ounces: sealed Earth, Bole-Armeniack, of each half an Ounce: the Electuary of Diatrageacanth frigid, two Drams: then macerate them again four days, and distill them. Take two or three spoonfuls of this Water alone, or with some proper Syrup.

The Chymical Oyl of Amber doth pierce, astringe, and dry powerfully, if you give two drops thereof in Plantane-water: As *Celapinus* teacheth in his *Speculum Artis Medicinæ*.

Mercurialis in his Consultations doth highly commend the Seeds of white Poppies, or white Henbane to be taken every Morning to the quantity of a Dram, with sugar of Roses and Syrup of Purflane; so you may also use the white Diacodium or Syrup of Poppies prescribed in the Cure of the Phrenzy.

Amatus Lusitanus doth highly commend the Juice of Nettles, in these words: They which have vomitted blood, after they have been given over by Physicians, have been cured only by the Juice of Nettles drunk five or six days fasting, to the quantity of four ounces, and by Nettle-Broth.

Sanguis Draconis doth wonderfully conglutinate all inward Veins, if you give half a Dram thereof with Plantane-water, or other proper Liquor or Medicine.

The usual Pills to hold under the Tongue, may be made thus:

Take of the Mucilage of Gum-Arabick and Tragacanth, drawn with Plantane-water, of each two Drams: Mummy and Mastick, of each one Dram: Sugar of Roses as much as will make Pills, of which let him hold one continually in his Mouth.

And take this following Powder in his Broths.

Take of Red Coral and prepared Pearl, of each half a Dram: Gum-Arabick and Tragacanth, of each two Drams. Make a Powder.

Or boyl White Poppy-seeds and Sumach tied in a Clout in his Broth.

Narcoticks are good in this case, and you must use them thus;

Take of Syrup of Poppies, Jujubes, and dried Roses, of each one Ounce: Mix them, and take a Spoonful every Night. Or,

Take of Syrup of Poppies and Purflane, of each three Drams: Terra Sigillata half a Dram: Purflane and Plantane-water, of each one Ounce and an half. Make a Potion to be taken at night. Or,

Take of Syrup of Myrtles and Poppies, of each one ounce: Bole-Armeniack half a Dram: mix them to be taken at night.

Sometimes you may give Treacle of four months old, as *Galen* teacheth, §. Method. Cap. 13. or *Philonium Romanum*, or *Laudanum*.

Platerius reports, that he cured one only with the Troches of Winter Cherries, with Opium dissolved in Goats-milk, taken some days: and also that he cured a Woman with one Ounce and an half of Manna given in Broth, and with blood-letting, and the use of the Tablets following morning and evening for many days.

Take of the Seeds of white Henbane powdered finely, two Scruples: red Coral half a Dram: Gum-Arabick one Scruple: new Violets ten: the Juice of Barberries two Drams: Sugar dissolved in Rose and Plantane-water, two Ounces. Make Tablets.

Trallianus, Lib. 7. Cap. 1. doth rightly commend the Blood-stone, by which he saith that he cured many, giving it to four scruples, with the Juice of Pomegranates or Knot-grass; but to them who bled not much, he gave it with warm Water. But he saith, you must sift it well, give it often that it may better be distributed, and in Wine.

Antony Valerius, Exercit. ad Cap. 27. lib. 1. *Hollerii de Morb. internis*, reports, that he cured when all means failed, by this Powder which he had from *Julius Scaliger*.

Take of Spodium, red Roses, Bole-armeniack, Terra Sigillata, and Blood-stone, of each half an ounce: red Coral, Amber and Pearls not perforated, of each two Drams and an half: Gum-Arabick and Tragacanth, of each two Drams: the Seeds of Purflane, Mallows, Ribwort, red Roses, burnt Harts-horn, and white Starch burnt, of each three Drams. Make thereof a fine Powder, and give three Drams thereof with Rain-water.

This Powder *Scaliger* borrowed of *Serapio*, who mentioned it in his Book of spitting of Blood, and which *Valescus* also commends. And you may make Tablets thereof with Sugar dissolved in Rose or Plantane-water.

The Electuary of *Halideus* is like it and easier made; which was wont to be famous in Germany, and so commended of *Gesner*, *Erastus*, and *Crato*, thus:

Take of the Seeds of white Poppy and Henbane of each ten drams: Terra Sigillata and red Coral, of each five drams: old Sugar of Roses as much as will make an Electuary. Give hereof one dram morning and evening, after universal Medicines have been given.

But because that spitting is stopped by the use of Astringents, and thence comes difficulty of breathing, you must at times use things that mollifie the breast, and also stop bleeding, such as they which are compounded of Gum-Arabick, Tragacanth, Starch, and Syrup of dried Roses, Quinces, Myrtles, and Jujubes, the Juice of Plantane and Purflane. While you use Astringents, if the belly be bound give a Clyster or Purge that leaves some Astringency.

In the whole time of the Cure, if you suspect that there is any congealed blood in the Breast, you must dissolve it with Oxycrate thus made according to *Galen, 5. Meth.* that it may be pleasant and not provoke Coughing, with the Vinegar; for so it dissolveth the blood and gently bindeth: Let him take six Ounces warm twice or thrice in one day, and if it provoke Coughing, sweeten it with Sugar; but you must use this when the bleeding begins to cease: For this also Amber and Mummy mixed with Glutinators and Astringents is good.

Also for the allaying the heat of the Liver, use often a cooling Epitheme to the right side.

Take of Rose, Plantane, and Succory-water, of each four Ounces: Vinegar of Roses two Ounces: the Powder of the Electuary of the three Sanders one Dram and an half: Camphire one Scruple: Make an Epitheme to be applied warm to the Liver.

After the use of the Epitheme anoint the same part with Oyntment of Roses, or the Cerat of Saunders, with a little Rose-Vinegar.

Anoint also the Reins of the Back wite Oyl of Roses and Water-Lillies washed with Vinegar; adding a little Camphire to allay the heat of the blood in the hollow Vein: but you must beware of things that are too Astringent, lest they drive the blood from the hollow Vein into the Lungs.

It is also very good to wash the Stones with Oxycrate to stop the Flux and allay the heat: for there is a great consent between these parts.

A Bath would also be good to allay the heat of the Bowels; but because they relax and so open the Veins, you must avoid it.

Let him drink Syrup of Myrtles, Purslane and dried Roses; or Sugar of Roses with Barley-water, or with the Water wherein Blood-stone or sealed Earth hath been infused. Or mix Conserve of Roses with the Water, or with the Water wherein Coriander hath been infused, made sharp with the Spirit of Vitriol, or with the Tincture of Roses.

A weak Decoction of Yarrow drunk ordinarily is good against all bleeding.

If a sharp Defluxion from the Head upon the Lungs be the cause of this Disease, besides what hath been said, you may use those Remedies which are prescribed in the Cure of a hot Catarrh.

After the Blood is stopped, to keep it from returning you must first abstain from all things that stir the Humors, as violent exercise, great heat, anger, crying aloud, rich Wines, the Meats mentioned, which are either salt or spiced.

Conserve of dried Roses must be held in the Mouth, especially at bed-time.

Take of Conserve of Roses and of Comfry-roots, of each one Ounce: the Troches of Amber, and sealed Earth, of each half a Dram: red Coral and prepared Pearls of each one Scruple: Sugar of Roses as much as all the rest: Make a Mixture, of which let him take a spoonful sometimes one hour before Meat.

Let him be purged four times in a year, or oftner if occasion be, with the Potion of Rhubarb and Myrobalans above mentioned; to which instead of Syrup alone add one ounce of Manna.

You may with good success take a Scruple of torried Rhubarb every morning one hour before Meat, especially if the Blood be serous, as it is commonly in Hæmorrhagies.

Also Rhubarb not torried given in the same quantity; for so the blood after the serous watry Humor is carried away will grow thicker: Or, you may give a Dram of Rhubarb once every Week.

There is also a Magistral Syrup to cleanse the blood from thin serous Humors. As,

Take of the Leaves of Bugloss, Fumitory, Hops, Succory, Endive, Agrimony, Plantane, Maiden-hair, of each one handful: the Tops of Asparagus, Vervain, and Eyebright, of each half an handful: the Seeds of Gourds and Melons, of each half an Ounce: Endive and Dodder-seed, of each two Drams: Liquoris scraped, and Raisins, of each half an Ounce: Sweet Prunes twelve: Senna four Ounces: Polypody of the Oak two Ounces: Agarick tied in a thin Clout, six Drams: Mace one Dram: the three Cordial Flowers and red Pease or Pulse, of each one Pugil: boyl these to a pint and an half: dissolve in the straining of the Juice of sweet Apples three Ounces: fine Sugar one pound and a quarter: Make a Syrup boyled well, and scented with yellow Saunders. Then infuse in it one Ounce of Rhubarb beaten and tied in a Clout, let him take an ounce and an half, or two Ounces, with Broth twice in a month.

Make an Issue in the right or left Leg, as the Liver or Spleen are affected.

Lastly, Let him use for a whole Month Asses-milk steeled, for prevention of this Disease.

For his Drink take Water boyled a little with Coriander-seeds, or the Decoction of Barley and Liquoris.

Chap. 7. Of Phthisis, or Consumption.

Although the Word *Phthisis* signifies every Consumption, yet it is most properly taken for that Extenuation of body which cometh after an Ulcer in the Lungs.

For this Extenuation of body comes from a putrid lingering Feaver, which turneth to an Heetick; and this Feaver comes from the Ulcer in the Lungs, from which by reason of their nearness to the Heart, putrid Vapors are continually sent thither and cause the Feaver, which after is dispersed from the Heart into the whole Body: so all the parts being too cold and dry, and receiving the intemperate putrifying heat, do not well concoct their nourishment, but are ill nourished, from whence you may plainly perceive a Consumption of the substance of the whole Body: For that Feaver by reason of its continuance from the perseverance of the Cause turneth Heetick, and it's often joyned with a putrid Feaver, which is known by the Urine, and by the Distemper extraordinary at sometimes, insomuch that in some Consumptions you may observe fits of an intermitting Feaver.

CAUSES. A sharp and corroding Humor either coming from other parts, or breeding in the Lungs, is the immediate Cause of an Ulcer in the Lungs.

First sharp and salt Rheum falls from the Brain, which being violent, easily ulcerateth the Lungs: Sometimes Flegm that is not sharp nor salt will do the same, namely, if it be long in them, and putrifie, and from the putrefaction ariseth an Acrimony, which corroding ulcerateth; yet this putrid flegm in the Lungs doth not always ulcerate, as we may observe in a Catarrh when putrid matter is spit forth, and the Lungs are sound.

But there are two Conditions for the causing of an Ulcer; one in respect of the Matter flowing, another in respect of the Lungs. In respect of the Matter it is required that it should be so disposed, that when it is putrified it begets a sharpness which may cause an Ulcer. In respect of the Lungs, they must be extraordinary tender, and disposed to corruption, which in a word is called a Vicious Constitution of the Lungs, coming from the Parents usually, of which we will speak hereafter.

Now the Humors that exulcerate and putrifie the Lungs, come from the parts adjoyning, as the Pleura, Mediastinum, Diaphragma, rough Artery, and especially from an Inflammation in them, which comes to Suppuration and turns into an Empyema; of which *Hippocrates* speaks, Aphor. 15. Sect. 5. *They who fall from a Pleurisie into an Empyema, if the Empyema break in forty days and come away, are cured; but if not, they fall into a Consumption.*

The Humor is in the Lungs, when from some Vessel broken, corroded, or opened by a wound, the blood flowing doth putrifie; or when an Ulcer is left there from the small Pox.

Sometimes from the evil constitution of the Lungs, evil Humors proceed, which corrupt their substance and cause a Consumption; and this comes commonly from the Parents, from whence a Consumption is reckoned among the hereditary Diseases, of which it is the chief, so that we may observe how many whole Families are taken away with this Disease.

This evil Constitution of the Lungs is not in the first qualities, but hath some malignant and venomous quality, by which it becomes infectious. Although we deny not but a soft and loose substance of the Lungs, and therefore more fit for corruption, doth much conduce to the breeding of this Disease.

This evil Constitution of the Lungs causeth that some fall into Consumptions without a Distillation, Inflammation, or any other evident cause, but onely from the fault of the part that corrupteth its own Nourishment.

Sometimes it comes from a Pustula bred in the Lungs and broken, which by *Hippocrates*, 1. de morbis, is made two-fold.

One by him is called a Crude Pustule, because it never comes to Suppuration, but growing by degrees stops the Passage of the Breath, and at length kills the Patient.

The other is that which comes to Suppuration, and is called the Imposthume of the Lungs, and these come two ways, either by Defluxion, or Congestion; and the Matter gathered is either in a Bag, or without it in the very substance of the part.

The thickness of the Bag often causeth that such an Imposthume is carried many years in the Lungs undiscovered, and without any hurt to the Body. From whence *Hippocrates* saith, Aph. 41. Sect. 6. *They who have an Imposthume in the Body, and feel it not, it is by reason of the thickness of the Matter, or of the place wherein it is that they feel it not.* For this cause many who seemed to be in perfect health have suddenly died by an Imposthume broken within; of which there are examples in *Fernelius*, lib. 5. de morbis, de part. morb. & sympt. c. 10. among which he mentioneth two Physicians who foresaw the danger without signs.

If the Matter which comes from the Imposthume broken flow into the Ventricle of the Heart, the

Sick presently die : but if it come to the Bronchia or passages in the Lungs, it may be spit up ; if the Body be strong, and the Matter little in quantity ; but commonly there is an Ulcer remaining in the Lungs which causeth a Consumption.

Moreover, there are External Causes, as Contagion, which is the chiefest ; for this Disease is so infectious, that we may observe Women to be infected by their Husbands, and Men by their Wives, and all their Children to die of the same ; not only from the infection of their Parents Seed, but from the Company of him that was first infected.

And this Contagion is more easily communicated to them that are of kin, whereof it is not safe for a Brother or Sister to enter into the Chamber for the *Miasmata* or Vapors infective, which come from their Lungs and infect the whole air of the Chamber, and being drawn in by others (especially if they are any way disposed to the same Disease) beget the same Disease in their Lungs.

There are other External Causes, especially very hot or cold Air ; the hot Air doth melt down the sharp Humors which are contained in the Brain, and sends them to the Lungs. The too cold Air by astringing, compressing and squeezing, doth cause the like Defluxion : but the Air in Autumn is most dangerous, because by its inequality in heat and cold, it causeth sharp and salt Distillations ; whence *Hippocrates* saith, Aph. 10. Sect. 3. *Autumn is the worst time for people in Consumptions.* Secondly, Sharp and Salt Meats and Drinks do cause a Consumption, which fills the Head with salt and sharp Vapors. And lastly, All those Internal and External Causes which use to produce spitting of blood, which useth to end in a Consumption, may be said to be Causes thereof.

Among the Antecedent Causes, evil Humors throughout the whole body are accounted the chief, which being moved by External Causes, are sent to the brain, and from thence to the Lungs. Among which you may reckon the suppression of the Terms, Hemorrhoids, or other usual Evacuations, which do cause Catarrhs and Defluxions.

The aforesaid Causes do produce this Disease, especially among those whom *Hippocrates* calleth *Phthirotis*, and *Pterugodeis*, that is, such as have a straight and distressed Breast, a long Neck, and Shoulder-bones sticking forth, who must of necessity fall into this Disease, if they have tender Lungs, of an hereditary inclination thereunto. Also they are inclined to a Consumption who have a weak Head, which is easily filled with superfluous Humors, which are sent to the Organs or Instruments of the Spirits.

DIFFERENCES. There are no true and proper Differences of Consumptions, but such as come from the variety of their Causes. Yet *Hippocrates* doth lay down many kinds which are worth the observing, which must be reduced not to a true Consumption, but to one in general, which is without an Ulcer of the Lungs. And first, *Lib. 6. Epid. Sect. 2. Text. 47.* He speaks of a Consumption which came from a running of the Reins, in his History : *A Satyr called Grypalopex, being twenty five years old, had Nocturnal Pollutions, and daily loss of Seed ; who when he came to be thirty years of Age, fell into a Consumption and died.* For by the continual loss of Seed the Nourishment of the Body is taken away ; by which the solid parts are consumed and dried.

There is another kind in *Hip. 2. de Morb.* called the Consumption of the Back, which comes from too much Lechery, which destroyeth the whole habit of the Body, and takes away the Nourishment from the solid parts ; this happens to new Married Folks who are unsatiable, and is the chiefest of the Consumptions of the Back ; for *Hippocrates* lays down four kinds thereof. The first is that mentioned, which comes from Lechery. The second is laid down, *Lib. 2. de inter affect. text. 13.* which comes from too much blood, and nourishment going to the Spinal Marrow, by which the Natural heat and all other Faculties are stifled and destroyed. Now *Hip. 5. Epid.* sheweth that the body may consume by too much blood, in a story concerning one, who when nothing would nourish him, but he still grew leaner, was perfectly cured (when other Medicines failed) by bleeding in both Hands as long as the Veins would discharge. The third kind is in the place mentioned, namely, when the Marrow of the Back is dried, by which the whole body drieth and consumeth. *Hippocrates* mentioneth two Causes of this driness ; one is the obstruction of the Veins which go to the back with nourishment ; another is the flowing of Choler from the Head upon the Back, which *Hippocrates* sheweth in his Book *De locis in homine.* The fourth is described in the same Book, and it comes from a Distillation upon the Marrow of the Back, in these words : *Moreover, when a Defluxion falls upon the Back, this kind of Consumption cometh with pain in the Loins, and seeming emptiness to the Patient in the Internal parts of the Head.* In the same Book, Numb. 18. he saith thus : *When there is a Defluxion upon the Marrow, there is a secret undiscerned Consumption.* He calls it Secret, because when the body decays, you cannot so easily find out the Cause ; he calls it Undiscernable, because you cannot perceive the inconveniencies of the Defluxion at the first. But it ceaseth to be secret and undiscernable, if the Defluxion be not only upon the Marrow of the Back, but also upon the *Os Sacrum* and Hip ; for then the Distillation is apparent, and there is pain and loss of Motion, with dejection of Mind. These are more clear in *Hippocrates*, in his Tenth Book *De glandulis*, in these words : *There is another Disease which comes from a Defluxion from the Head by the Veins upon*

upon the Marrow of the Back, and from thence to the Os Sacrum and Hip, which is a Consumption also which destroyeth, for then the Shoulders and both the Feet are weak, and after the Legs, and they always die of it, though they have been formerly cured. This kind of Consumption is to be observed, because it often happeneth, especially to such who have weak Nerves, which will easily receive the Defluxion.

To this kind you may refer that which comes of want and hunger, which Galen mentioneth, *lib. de Marasmo*, when the body decays for want of Nourishment. Now Nourishment is wanting to the solid parts, not only for want of Meat, which the Stomach concocteth and sends to the Liver to make blood for the whole body; but also when the Chylus which is sufficiently concocted in the Stomach cannot pass through the Meseraick Veins, by reason of their obstruction; as it happeneth to them who have a Struma, whose Mesentery for the most part is full of Glandules, by which the milky Veins called *Vena Lactea* are compressed, from whence the body grows lean, and they die of a Consumption.

But the solid parts are deprived of the necessary nourishment when salt blood that is not fit for nourishment is gathered into the Veins, which, as Galen shews, are incurable, *5. Meth.* except by *Epictasis*, or change of habit. And finally, Galen, *lib. de Marasmo, decimo Meth.* and in other places, speaks of a Consumption from a manifest or hidden Inflammation, from the Syncope of the Heart or Stomach, and the like, which may be seen in their proper places.

SIGNS DIAG. The Diagnostick Signs by which you may know a true Consumption, do some of them declare a Consumption beginning, or begun, or confirmed, which are very well set down by *Hip. 1. de Morbis.*

The Signs of a Consumption at hand, are in *Hip.* Book mentioned, Text 9. in these words: *There is also a Suppuration when Flegm flows from the Head upon the Lungs; and first for the most part it flows privately, and causeth a little Cough, and the Spittle to be bitter, and a little heat.*

In this laying there are contained four Signs of an eminent Consumption.

The first Sign is, a Defluxion from the beginning closely conveyed to the Lungs, because then the Matter is little, and because the thinner part of the Humor floweth about the rough Artery, and doth not vex the Lungs, which otherwise would be more disturbed in the beginning, before they are weakened; thence it is called a secret Defluxion, because there is little hurt at the first done thereby.

The second is, When the Humor flowing makes but a small Cough, being at the first but little and thin.

The third Sign is, When the Spittle is more bitter than usually it was, because the Humor that must ulcerate the Lungs must be sweet, sharp or salt; which qualities being altered by a preternatural heat, do turn bitter; for it is known that sweet and salt things over-much boyled, do grow bitter. But in regard that preternatural heat is not very great at the first, the Spittle is but a little bitter.

The fourth Sign is, A little heat, as being feaverish; for when the matter is not much moved, but receiveth putrefaction from the heat of the place, wherein it hath been long contained, the Feaver cannot be very violent, for the putrid matter can many ways be refrigerated; therefore it is no wonder if the Feaver be small in the beginning.

To these Signs of *Hippocrates* we may add an evil formation of the Breast and Youth, which meeting with the aforelaid Signs, must needs declare a Consumption to be at hand.

The evil fashion of the breast is when it is narrow, and the Shoulder-blades stick up like wings; when the fore-part of the breast is narrow, & the hinder-part broad, for then the breast is both small and evil proportioned. The straitness of the breast shews want of natural heat, and the evil proportion shews its weakness. For if the natural heat were much and vigorous, the breast would have thereby been extended. But such and so great is this disposition that *Hippocrates* calls it a Natural Consumption, coming from a principle in Nature. Wherefore they who are thus made must of necessity fall into a Consumption, except some other Disease take them off. Which by the way is observable, for if they have any acute Disease who are thus inclined, they seldom escape, because the natural heat is weak and little, and therefore will easily be overcome by a strong Disease. Therefore the most wary Physicians in such kind of natures and habits do use to prognostick rather death and danger, than health or recovery; when they fall into any Disease.

In them who are inclinable to this Disease, Youth is most dangerous, according to *Hippocrates*, *Aph. 9. Sect. 5.* especially from eighteen to thirty five years, in which time there is much blood for to break the Vessels; as also it is then thin and sharp, more proper to open and corrode the Vessels. In Children the Catarrh is made slow with much moisture: In old Men it is allayed with Cold, but in the middle age for the reasons aforelaid, it doth often exulcerate.

Moreover, in Youth many Distempers come by Diet, by which many ill humors are produced and the blood infected; as also by reason of violent exercise, as running, wrestling, leaping, fencing, and going in the Sun: also a Vein may be broken in the Lungs which may produce a Consumption.

The Signs of a Consumption begun are set down by *Hippocrates* in his Book of Diseases before mentioned, Text. 10. in these words: *In progress of time the Lungs are exasperated and ulcerated within by the Catarrh putrefying there, whereby the Breast seems pondrous, and there is a pain before and behind, and there is more sharp heat in the Body; and the Lungs by reason of their heat draw moisture from the whole body, and especially from the Head, which also is made hot from that body, and spitteth forth thick matter.*

In these words there are Six Signs contained of a Consumption begun.

The first Sign is, That the Lungs are exasperated in progress of time, that is, the Cough is more violent; for the Disease increasing, the Distillation is stronger, and the Lungs are pierced therein, and provoked to cough forth that which hurteth them, which Cough doth not only come from the matter flowing down, but from that which flowed formerly; for being not coughed up it groweth foul by long continuance, by which means the Lungs are more forced to expulsion.

The second Sign is, The weight of the Breast which comes from the matter gathered into the Lungs; for albeit the Lungs of themselves do feel little or nothing, yet because they are tied to the Breast by Membranes, they perceive a weight when they are burdened.

The third Sign is, A sharp pain before and behind; for the matter contained in the Lungs doth with its evil quality offend them, as well as with its quantity and putrefaction, by which the Membranes are pricked, which cause great pain, for the pain in the Membranes is always pricking. Now this pain is perceived before and behind; because these Membranes are joyned before to the Sternum, and behind to the Back; and the cause of this pain is from a great Cough, called by *Hippocrates*, A malignant or cruel Cough.

The fourth Sign is, When sharp heat falls into the body, and there followeth a violent Feaver; for when through progress of time the matter putrefieth more, it is probable that the Feaver will be greater; for although the matter from the beginning do only putrefie in the Lungs, yet by reason of the Suppuration made in the Breast with an Ulcer, the filth is communicated to the Humors contained in the Veins; from which come divers sorts of putrid Feavers, and these differ from that Feaver which comes only from the Ulcer in the Lungs, through the filthy Vapors which are carried from them into the Heart, which turns to an Hectick; and therefore in a Consumption there is a Hectick Feaver often joyned with a putrid.

The fifth Sign is, When a great quantity of Flegm falls from the Head to the Lungs; which *Hippocrates* confirms, when he shews the Cause of that great Defluxion, namely, The Lungs by their Heat drawing Flegm from the whole body. Hence it is that the Humors contained in the whole body are the matter of a continual and great Flux which doth so trouble men in Consumptions. The Lungs by the filth which they have contracted, grow hot; by which heat, Flegm is drawn from the brain, which the brain fetcheth from the whole body: And this is one of the principal Causes of the extenuation of the whole body; for all the Humors good and bad are carried to those parts, and so the whole body decayeth.

The sixth Sign is, Spitting of thick rotten Flegm; for when the matter putrefieth and there is an Ulcer, Quittor or Filth must needs come from thence, and therefore the Spittle is mattery: but it is between thick and thin; for after that it hath by long continuance in the Lungs grown thick, it is made thinner by the addition of that which breaks from the Ulcer, and so it becomes moderate, which *Hippocrates* calls *Subcrassum* or thickish.

To these mentioned Signs of *Hippocrates*, you may add this as most certain, namely, The Extenuating the body with a lingring and constant Feaver. For besides the putrid Feaver above mentioned which come and go by fits, and grow from the Humors which putrefie in the Veins: there is also always present a lingring daily Feaver coming from the vapors sent from the Ulcer to the heart, which corrupteth the nourishment of the whole body, and makes it dry and hot, from whence the body must needs grow extenuated.

To these you may add Sweating at Night, with which men in Consumptions are often troubled as soon as they begin to sleep; for by sleep the heat is drawn in which increaseth the Inflammation of the Lungs, and the heat inwardly increased, causeth abundance of vapors which are thickened in the skin, and turned into sweat.

Moreover, there is a continual rigour which comes from the sharpness of the matter which pricketh the Membranes.

And lastly, you may add sweetness of Spittle, which useth to come when it begins to suppurate, which is the original of saltness.

Hippocrates shews also the Signs of a Consumption confirmed in his 11. Text. of the Book above mentioned, in these words: *The longer this Disease lasteth, the more absolute matter will be spet, and the Feaver be the sharper, the Cough more frequent and strong, the body will more consume, and yet the body is disturbed downward from Flegm, and this comes from the Brain, when any man comes to this he must perish.*

In these words, we may observe that there are five Signs of a Consumption confirmed.

The first is, The Spittle being more mattery, or rather matter it self.

The second is, A strong Feaver and sharp, more putrefying, and the Ulcer more foul.

The third is, An often and violent Cough more than formerly; often because of the great provocation and little evacuation, therefore nature laboureth to do that at divers times which she cannot do at once: and it is a stronger Cough, not only because the greater sharpness of the water doth more violently stir up the expulsive faculty, but also because of the wearing away of the solid parts, the breast is made more hollow; hence comes a hoarse and sounding Cough, as from a hollow place.

The fourth Sign is, Pining and want of Appetite, which makes them leaner; now the want of Appetite comes from the Distillation which doth not only fall upon the spiritual Members, but also upon the Natural, especially the Stomach, whose mouth is thence weakned to the loss of Appetite; as also from the putrid Vapors sent thither either from the Feaver or the Ulcer.

The last Sign is, A loose Belly which comes from Flegm falling from the Head, by which in time the Stomach and Guts are weakned, and the retentive faculty destroyed; and this kills the Patient, as we will shew more at large in the Prognosticks.

To these Signs of *Hippocrates* we may add some other.

The first is, A great extenuation of the whole body, so that all the Musculous flesh is consumed, and the bones appear only covered with skin; and hence it is that the Nails are crooked, because the flesh which was in the tops of the Fingers to hold up the Nails is consumed.

To this you may add difficulty of Breathing, both because the Faculty is weak, as also because the Bronchia of the Lungs are stoppt with putrid matter; as also because the part is for the most part putrefied and consumed, and therefore cannot take in sufficient air to cool the heart; so that what the Lungs cannot do by one breathing, it must do by often.

And lastly, We may add that in a confirmed Consumption that is desperate, the Hair falls off, the Cheeks wax blew, except it be after Meat, and then the Vapors sent up make the red Lice breed in abundance, and the feet swell.

Neither need we so many Signs, for if any ordinary man, saith *Aretus*, shall see a man pale, weak, and coughing, and very lean, he will conclude him to be in a Consumption.

Yet we must observe diligently, That sometimes a violent Catarrh falling upon the Lungs will resemble a Consumption, so that filth like matter shall be spit forth, and thence may a Feaver come through putrefaction and extenuation of body: but they who are so, may easily be cured by diligence in means, therefore let us distinguish this rightly from a Consumption, which is chiefly done by discerning between putrid Flegm and Matter. Thus,

Matter is of a dun colour, and less white than Flegm; sometimes of divers colours, and being put into hot Water it sinketh and dissolveth; but Flegm swims at the top and sticks together by reason of its sliminess, and will not dissolve.

But if some of the Spittle dissolve and the rest not, it is made of Flegm and Matter, which often hapneth.

PROGNOSTICK. As for the Prognostick, it is very hard to cure a new Ulcer in the Lungs; but it is impossible to cure an old, because it is opened by the continual motion of the Lungs and by coughing, so that it will not be united; as also the force of the Medicine is gone before it can come at it, and the lost substance of the Lungs cannot be repaired.

Moreover, an Ulcer, Spitting, Feaver, and leanness require contrary Remedies, for those things which dry the Ulcer, do hinder Spittle, increase the Feaver and Leanness; and moist things which are good against the Feaver and Leanness do make the Ulcer more foul.

Sometimes the Ulcer seems cured, and there is a Scab upon it, but with the least motion it falls off and the Disease returns.

A Consumption which comes from a small Ulcer of short continuance, although it be difficult, yet is not incurable if proper Medicines be timely used: and they who have gathered Observations mention many so cured; now there is most hope when the Patient is strong, the Spittle white, even, of one colour and easily raised; if the Humor falling from the Head pass through the Nose, and if thereupon the Feaver abate, if the Appetite be good, and there be no thirst, and if the belly be bound and in good order, if the Patient have a good habit of body, young, and have his breast large & hairy.

They whose Spittle stinketh or have loose bellies, or cannot spit, are near death, as *Hippocrates* teacheth, 1. Prog. & Aph. 11, & 12. Sect. 5. and Aph. 16. Sect. 7.

A Consumption coming upon an acute Disease doth kill speedily, but if it come from other Causes it is Chronical, and lasteth many years. And *Avicen* saith, that he knew a Woman that lived twenty three years in a Consumption. And *Mathew de Gradi* saith, That another Woman which was always about the Fire, lived in a Consumption twenty eight years.

The Cure of this Disease, as is said, is for the most part impossible, if the Disease is old; but if it be new, it may sometimes be affected, and the easier when it is but coming upon them who are disposed

posed thereto by an hereditary disposition, but are not yet fallen into it. Therefore we shall first lay down a Prophylactick of preservative, and then shew how to cure the Disease.

Therefore for the amending of the evil disposition in a Consumption, use a cooling Diet, and moist, and all such things as correct the blood, and make it mild, and correct its saltness and sharpness; as the Waters of sweet Baths, the use of Milk, and the like; as also China-roots boyled in small beer: but the Decoction of the Saunders is the best, which is not only good in a Consumption at hand, or begun, but also in salt and thin Distillations, and in old bleeding from thence. The Decoction of Guajacum doth Wonders upon the same account with the former, either given in distilled Waters with a little white or red Wine, as the Disease will bear it. Now the Decoction of Guajacum and of Saunders are made both alike, both for the first and second Drink, and given the same way. To these you may add change of Air, which is good both to prevent and cure. And lastly, those Remedies are good which we will lay down for the Cure of the Disease confirmed, to be used first.

CURE. Now the whole Cure consisteth in the cleansing and glutinating of the Ulcer, by taking away the Causes that produce and nourish it, by opposing the Hectick Feaver, and restraining of the Consumption.

First therefore, because an ill habit of body may increase the Ulcer of the Lungs, you must use gentle Purges, at divers distances as long as the body is not very low. And these must be made of Manna, Rhubarb, Cassia, or Syrup of Roses, thus:

Take of Barley half a Pugil: Liguoris scraped and Raisins stoned, of each three Drams: Fijubes four: the flowers of Bugloss and Violets, of each half a Pugil: boyl them to three Ounces. In the straining dissolve Rhubarb infused in Scabious-water with yellow Saunders four Scruples: Manna one Ounce: Syrup of Roses half an Ounce. Make a Potion.

Or give two Ounces of Manna with Chicken or ordinary Broth.

Or make a Bolus of Cassia one Ounce, and one Scruple of the Powder of Liguoris.

In the beginning you may give stronger Purges for to draw down the salt and sharp Catarrh which is the chief cause of the Ulcer, such as are prescribed in a hot Catarrh.

Also before the body be too lean, at the first you may let blood to allay the Feaver and the Acrimony of the Humor.

But in the beginning of the Cure you must stay and divert the Catarrh from the Breast, otherwise all other things will be in vain. And all those things which were prescribed for the Cure of a hot Catarrh are good in this case.

Besides a Seton to the Neck is very good. And *Fabricius Hildanus* reports that he cured many by this way.

At length you must come to the Cure of the Ulcer, for which give things that cleanse, knit, and expectorate. Many there are of this nature; but these following are the best.

Milk doth hit all intentions for Cure: It cleanseth with its ferous parts, it conglutineth with its coagulating part, and nourisheth and refresheth with its unctious part. But there are divers kinds of Milk, and Womans-milk is the best, because it is more agreeable to our natures, especially if it be sucked from the breast. *Platerus* affirms that he knew many cured by the use thereof; and that one of them did not only recover, but grew so strong, that lest his Nurse should want Milk for him, he got her with Child again.

But because many will not indure that sort, Asses-milk is commended, which because it is very full of Whey, doth easily pierce into Veins, and excellently cleanse the Ulcer: The next to this is Goats-milk. Let the Ass be fed with Plantane, Vine-leaves, Brambles, Polygamon, Brails, Barley, and Rye. Let him drink it new milked warm, therefore let the Ass be brought near the Chamber, and be warmed into a warm Vessel. First let him take it in a small quantity three or four Ounces, that his Stomach may be used to it, increasing the quantity by degrees to eight or ten Ounces, or a Pint, and lest it should grow sour or curdle in the Stomach, and that it may agree better with the Lungs, put Sugar of Roses to it, one ounce thereof to eight of Milk: let him not sleep after his Milk immediately, but walk gently about the Chamber: let him not eat before the Milk be concocted, and he find a stomach that it may be more effectual. You must not give it in a strong Feaver, or when there is a pain in the Head, or swelling in the Hypochondria or a cholerick Flux, according to *Hippocrates* Aphor. 64. Sect. 5.

Commonly it is taken only once in a day, but it is better twice, and best if the Patient live only upon it. For besides that it doth work more powerfully in a great quantity, there is a great profit by not mixing it with broth and other meats, for they will easily putrefie. If therefore the Disease be very desperate, give Milk after purging every six hours with *Manus Christi* of Pearl and Coral. And lest strength should fail, let him intermix a restoring distilled Water.

Sugar of Roses is very profitable, as also the Conserve; by use whereof, *Avicen* reports that he cured a Woman of a desperate Consumption, so that she was not only found but very fat afterwards.

Mefue also witnesseth that many have been recovered by the same, and he directeth that the Conserve of Roses be new, not above a year old, taken in a great quantity, and often, with Medicines, Meat, and Drink, and also by it self at any hour. But first give Cleansers, because it will otherwise astringe and retain the excrementitious Matter in the Lungs. But when breath begins to fail, and the Patient cannot raise Flegm, let him take expectorating things, as Syrup of Hylop and Coltsfoot, and other Lohochs. And if heat arise from drying too much, give Syrup of Violets, Jujubes, the Mucilage of Fleabane and Quinces, and the like.

Montanus, *Valeriola*, and *Forestus*, say, That they have seen some cured by taking Sugar of Roses in great quantities. An Apothecary whom I knew in a Consumption made a great quantity of Sugar of Roses for himself, and eat it constantly, by which he was cured.

An Infusion of Yarrow, Tormentil, Burnet, and Conserve of Roses made in *Balneo Maria* is very good, as it is described in the Chapter of Spitting of Blood, if it be used twenty days together.

The Decoction of Bugle in Mutton-broth, doth excellent against a Consumption and inward Ulcers, it doth a little gently loosen the Belly against the Nature of all the *Consolida*.

Trallianus lib. 7. cap. 1. boasts that he cured many with Blood-stone. The preparation and use whereof we have shewed in Spitting of Blood.

The Syrup of the Juice of Ground Ivy is commended by *Quercetan* thus made :

Take of the Juice of Ground Ivy two pound and an half; let it be digested in *Balneo Mariæ*. To this Juice well refined, put Sugar of Roses one pound; *Penides* four ounces. Boyl them to a Syrup to be taken now and then a Spoonful.

He also addeth the flower of Brimstone to it to make it into a Lohoch, of which he gives four times in a day; and he boasteth that he hath therewith cured many.

The Syrup of the flowers of St. Johns-wort made by infusion in *Balneo Maria*, is very good in this Disease, as also for all inward Ulcers.

The Syrup of Comfry is excellent, for it cleanseth, healeth and strengthneth by astringing; as also Comfry-roots boyled in broth.

It is affirmed that many have been cured by this Hydromel.

Take of China-roots sliced, six Ounces: Colts-foot-roots three Ounces: Burdock and Avena-roots, of each three Ounces: Elicampane-roots two Ounces: Lungwort-leaves, and Scabious-leaves and Roots, both the *Veronicaes*, *Ulmaria*, and Herb Two-pence, of each two handfuls: all the Capillar Herbs, of each one handful: the tops of Bugle, Betony, Cowslip, flowers and red Veronica, of each four Pugils: Ground Ivy-leaves and Roots three handfuls: Jujubes, Dates, Sebestens, and Raisins stoned, of each one Ounce and an half: Spanish Liquoris one Ounce and an half. Let them all being well sliced boyl in thirty two Pints of Spring-water, till half be consumed with a little gentle fire: add to the Liquor being strained, of the best Honey four pound. Boyl it again and skim it; then strain it through an Hippocras Bag, putting thereto half an Ounce of Cinnamon, six drams of Coriander-seeds: Anis and Sweet Fennel-seeds, of each three Drams: put the Liquor in a large Vessel, and let it work in the Sun; for so it will be done in forty days, otherwise it will be longer: but you must keep the Vessel always full and open, that it may froth over: therefore you must make more Hydromel than the Vessel will contain; and if the Disease require it you may use it fresh before it worketh till you make another in the Vessel; and you may make this quantity twice or thrice at once, because it must be taken divers months together. Let him take a good draught thereof twice in a day.

This following Syrup is made more easily, and hath great virtue.

Take of the Juice of Ground-Ivy, Veronica and Carduus Benedictus refined, of each eight Ounces: in which boyl gently Maiden-hair, Politrice, Scabious, and Lettuce, of each half a handful. Dissolve in the strained Liquor one pound and an half of white Sugar. Make a Syrup well boyled, adding in the end three Drams of the Extract of Juniper; Juice of Liquoris and the Extract of Carduus, of each four Scruples. Let the Patient take one spoonful an hour before Dinner, and another before Supper, and another at Bed-time.

Cardanus saith, That he cured many Consumptions with this course following: namely, by giving no other nourishment than Barley-broth made without flesh, and Water with Sugar, and every morning four Ounces of the Concoction of the Tails and Legs of Cray-fish made in Barley-water with two drams of Sugar.

Arceus, *Ingraffius*, *Fracastrinus*, and *Erastus*, say with admiration, That they have cured many Consumptions by the use only of Guaiacum for a long time continued; yet this in respect of the Antecedent Cause, which is a hot and sharp Humor, seems to be an Enemy.

Avenzoar reports, that his Grandfather cured a Consumption with well leavened Bread, and Sallet Oyl, and also that he did the same.

This Powder following is highly commended by *Valescus de Taranta*, and it is reported to be invented by *Haly Abbas*, and he saith, that he cured one with it. And *Forestus* saith, that he cured his Brother with the same.

Take

Take of white Poppy-seeds ten Drams : Gum-Arabick, Starch, and Gum-Tragacant, of each three Drams : Purslane-seeds and Mallow-seeds, of each five Drams : Pompion, Melons, Cucumbers, Gourds and Quince-seeds, of each six Drams : Spodium and Juyc of Liquoris, of each three drams : Penides, the weight of all the rest : make a Powder : give every morning two Drams thereof with the Syrup of Poppies or Fijubes. Let him also take it in Barley, Cream, or Almond-milk, and with other Meats.

Cappivaccus and Claudius do approve of Oyl of Vitriol to dry the Ulcer, giving two or three drops with Rosewater or Juyc of Plantane, with a little Sugar.

Crollius also commends the Elixir Proprietatis which is made of the Spirit of Sulphur, with the Spirit of Wine, Myrrh, Aloes, and Saffron.

The Chymists do highly commend the Medicines made of Brimstone, as the Flower, Milk, and Balsom thereof, as you may read in their Books. You may use them thus very well.

Take of the Flower of Brimstone, and Powder of Frankincense, of each one Scruple : put them into a hollow Apple, then roast it, and let the Patient eat it with Sugar every morning for eight or ten days together. Or,

Take of Conserve of old Roses, Diamargariton frigid, and Diapenidion, of each one Ounce : Flower of Brimstone three Drams : make it up with clarified Honey, of which let him take the quantity of an Hazel-nut twice or thrice in a day. Or,

Take of Flos Sulphuris three Drams : Sugar dissolved in Rosewater three Ounces : make Lozenges, which let him hold in his Mouth often.

Take of Lac Sulphuris half a Dram : Magistery of Pearl and Coral, of each half a Scruple : the Emulsion of Melon seeds made with Coltsfoot or Veronica-water, two Ounces : the Julep of Roses six Drams : Cinnamon-water, and Manus Christi with Pearl, of each two Drams. Mix them, and let him take two or three spoonfuls every morning.

Some Chymists commend Antimonium Diaphoreticum well calcined, with thrice as much Salt-peter, so that all the vomiting quality be gone, which must be given every day in Lozenges made with Sugar of Roses, or mixed with Conserve of Roses, or with the Medicines above mentioned.

The Balsam of Peru is good to heal Ulcers in the Lungs, if you give one drop made into a Pill with Sugar every day.

The Powder of Burnet one Dram given every day in Broth, is esteemed excellent.

Ruffi Pills are commended by some taken to one Scruple every day, but made as followeth they do Wonders.

Take of the Mass of Ruffi Pills one Ounce : Antimonium Diaphoreticum, and Gum of Guajacum, of each half an Ounce. Make a Mass with the Balsom of Peru : of this let him take one Scruple every day for one month.

The Syrup of Coral, and Jelly of Quinces are good for the same.

Rodericus Fonseca commends the Decoction of yellow Saunders for a good Medicine against Defluxions upon the Lungs, which he prepareth thus :

Take of Succory and Sorrel-water, of each four Pints : yellow Saander sliced three Ounces. Infuse them one day, then boyl them in Balneo Maria in a close Vessel three hours. Take three Ounces of this every morning in Beer for forty days together.

Also all the Medicines which we mentioned for the Cure of spitting blood, are here very good.

Fumigations may be well used to dry the Ulcer of the Lungs very well, and they must be often taken in at the Mouth and Nose. You may make them thus :

Take of the Gum of Ivy one Dram and an half : Frankincense one Dram : Myrrh half a Dram : Amber one Scruple : Benjamin and Storax, of each half a Dram : Hypocistis two Scruples : Coriander-seeds, red Roses, and red Saunders, of each one Scruple. Powder them, and mix them with the Mucilage of Gum Tragacanth, make Troches and cast them upon the Coals.

Or, Make plain Fumes of Frankincense, Myrrh, Mastick, and Benjamin, always in the Chamber, that he may take in the dry and sweet scent of them.

You may make a stronger Fumigation, but it is not to be used but in strong bodies.

Thus ;

Take of Gum Anime, or Gum of Guajacum, two Drams ; Tobacco half an Ounce ; dry Coltsfoot one Ounce ; Hyssop, white Horehound, Rosemary and Orpiment, of each three Drams. Make a Powder ; put a little thereof into a Tobacco Pipe, take of it twice a day fasting, and half an hour after a draught of this Decoction.

Take of China and Sarfa, of each half an Ounce ; Scabious, Coltsfoot, and Ground Ivy, Ulmaria, Maiden-hair, and Avens Leaves and Roots, of each one handful : whole Barley one Pugil : Liquoris scraped, and Currans, of each one Ounce. Boyl them to two Pints, and put to it being strained four Ounces of Sugar of Roses ; let him take half a pint twice in a day as aforesaid.

For the Rich People you may use a moist Fumigation made of the Decoction of Herbs, which is a good

a good way to carry the strength of them directly to the Lungs: You may use all such Herbs as are proper for the Lungs, and to cure Ulcers. Take this following for an Example:

Take of Green Colts-foot eight handfulls: Hyssop two handfulls: bruise them, and put them in a Pot with a little water, lute it close, then set it into the Oven when the Bread is half baked, and then take it out with the Bread, and put a Funnel into a hole made at the top, and so take in the smoak through the mouth at the Lungs, and put it out at the Nose, and it wonderfully provokes spitting.

You must also morning and evening use a cooling Liniment to the Breast. As,

Take of Gum Tragacanth and Arabick, of each one dram, infuse them in Rose-water a day and a night, put then thereto of Oyl of Violets one ounce and an half; fresh Butter half an ounce; Sal-Prunella two drams: Camphire one scruple; Breast-milk as much as will serve: mix them in a Mortar to an Oyntment.

To repair a Consumption, or to prevent or hinder it besides Restoring Diets, which are principally made of Barley, Almonds, Pine-Nuts, Rice, Nuts, and the like, which Authors declare; Milk commended at first is very good, and a Bath of hot Water of Barley and Almonds bruised: but this is not good in a Catarrh, nor while there is a putrid Feaver, nor when the Lungs are full of Excrements.

Let his Drink be Water and Sugar, Barley-water and Liquoris; an Infusion of Liquoris, a thin Hydromel, or a weak decoction of China.

The End of the Seventh Book.

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THE
EIGHTH BOOK
OF THE
PRACTICE
OF
PHYSICK.

Of the Diseases of the Heart.

The Preface.

THE Heart hath many Diseases, Similary, Organick, and Common: but because few will submit to the Physician, in regard of the Nobleness of the Part, which will not endure grievous Diseases, but a man is suddenly gone, and there is no time for Physick: We who intend to bring all our Labours into Practice, will lay down only three Diseases of the Heart, which are usual, and require many Medicines; and we shall bring them into three Chapters. The first shall be of Swooning; the second of Palpitation of the Heart; And the third of weakness.

Chap. I. Of Syncope, or Swooning.

Syncope is defined by Galen, 12. Meth. c. 5. to be a sudden failing of all the strength; For although the heart only suffer, and the Vital Spirits are only intercepted; yet when it fails, the rest must suffer, because they have a continual and necessary influence from it.

It is called a sudden failing of all the strength, that it may be distinguished from other Diseases, in which the strength goes by degrees, till death come; nor is the Doctrine of Avicen against it; Fen. 1. Lib. 3. Tract. 2. cap. 2. where he propounds the Sign of a Syncope that comes by degrees; for although the Causes that dissolve the Spirits do sometimes work by degrees, yet when they grow great, they make a sudden Syncope; and therefore Avicen rather propounded the Signs that go before a Syncope, than those that accompany it.

Moreover, This definition may seem to agree with an Apoplexy, in which there is a sudden failing of all the strength; but in an Apoplexy there is strength in the Heart, and the Pulse is generally great and full. And also there is great hinderance of breath, with snorting; but in a Syncope the breath is no ways stopped.

The question is, Why, when the Action of the heart ceaseth, doth the Action of the brain also cease, since the Animal Spirit is made of the Vital by way of Concoction, and must therefore stay some time in the Brain, although the Vital do not constantly come to it? We answer, That the brain as all other parts, for the perfecting of its actions, doth always stand in need of adventitious heat, which is brought to it by the vital spirits, and therefore when the vital spirits come not, neither doth heat come from the brain to perform its functions.

There are other Diseases very like to Syncope, differing only in degrees from it, namely, *Eclufis*, *Leipothymia* and *Asphyxia*: *Eclufis*, is a light fainting: *Leipothymia*, or *Leipopsychia*, or *Apopsychia*, is a very strong and great fainting: *Syncope* is the greatest, which if it go so far that the Pulse in the whole body ceaseth to beat, it is called *Asphyxia*, which is next unto death.

The word *Syncope* was not used by *Hippocrates*, and the Ancient *Greeks*; but they call'd this Disease *Leipothymia*, *Lipopsychia* and *Asphyxia*. But it was invented a little before *Galen's* time, and used for the greatest; so *Galen*, 1. *ad Glauc. cap. 14.* saith, *Leipothymia* is an imperfect *Syncope*, and goes before it.

By what hath been said, it appears, that the part affected is the Heart, where the Vital Spirits are all made; by whose influence the natural heat and spirits in every part are made to act: therefore when that ceaseth by stoppage of the Influx of the Vital Spirits, it is necessary that the strength of all parts should fail, and their actions cease.

CAUSES. The immediate Cause of this Disease, is the Defect of the Vital Spirits, not wholly, for then sudden death would come; but so great, that Nature is constrained (lest the strength of the Heart should totally fail) to fetch the Spirits from the other parts to the Heart, by which means the parts lose their Functions.

Now this defect of Spirits comes four ways: either because they are naturally few; or because they are dissipated and spent; or because they are preternaturally altered or corrupted; or lastly because they are suffocated and destroyed. They are few by fault of the faculty making, or matter from which they are made. The Faculty is hurt either by a Disease proper to the Heart, or by consent from another part.

The proper Diseases of the Heart which are the chief, are great distempers which overthrow the Natural temper, or destroy the substance of the parts, or of the Natural heat; as Swooning, Feavers sharp and malignant, *Syntactica* or *Colliquantes*, or fainting, pestilential, hectic, or *Marasmodes*, which consume; to this come organical Diseases, as too much constriction and dilatation, and constant solutions, which come to the Ventricles of the Heart.

The Faculty may be hurt by consent from other parts which have great sympathy with the heart, as the Brain and Liver, and sometimes from the mouth of the Stomach, by reason of its nearness and exquisite sense, from whence a Syncope is divided into a heart and stomach Syncope. The *Cardiaca* or Heart Syncope, is when the Heart is principally affected; but the *Stomachia*, or Stomach Syncope is that which comes by consent from the Stomach. Sometimes it comes from the Mother, by filthy vapors sent from thence to the heart, from whence comes the Suffocation of the Matrix, *Apnoea*, or want of breath and Hysterical Syncope, as those Vapors do assault the Lungs, Diaphragma, or the Heart.

The fault is in the Matter, when the Air or blood is defective or corrupted; from whence the Vital Spirits are generated. There is a defect of Air, when the respiration and Transpiration is hindered; but the defect of Blood is when Nutrition is hindered; there is a corruption of both, when their qualities are changed: so when the Air is infected in the time of Pestilence, it begets *Leipothymia* and *Syncope*, as also stinking vapors, and sweet also do the same with some Women; and the blood is corrupted from evil Meats.

Too great Evacuation, whether sensible or insensible do disperse the Spirits. The sensible are chiefly of blood, from the Mouth, Nose, Womb, Belly, Hemorrhoids, Phlebotomy, & great Wounds; & next of other humors, which though they are Excrementitious, yet because of their great Evacuation, the Spirits are much dispersed, and cause a Syncope. These humors are discharged by vomit, stool, urine, sweat, the opening of a great imposthume, especially if it be inward, as an Empyema; or outward, as in a Dropsie when the Navel is tapped.

The insensible Evacuations are by the Rarification of the Skin, and by the acrimony and thinness of the Humors, immoderate heat, hot Baths or Houses, great Labours. Also long watching and fasting, lechery, great anger, and joy, long and violent sickness to dissipate the Spirits: as also great pain of the heart, stomach, guts, reins, ears, teeth, and of all nervous parts.

An evil disposition of the Bowels doth alter and corrupt the Spirits, and whatsoever doth procure a malignant quality which is adverse to the heart, as air, stinks, venomous and pestilential taken in by the breath, or bred in the body from putrefaction of humors: as also poyson taken in, or applied outward, or sent to the heart by biting of venomous Creatures.

Lastly, The vehement returning of blood and spirits to the Heart, and an abundance of evil Va-

pors gathered about the heart and the parts adjacent, and too much cold and thick blood gathered about the heart and its veins, arteries, and parts adjacent, do suffocate and destroy the Spirits.

We lately saw a Noble Lady, a Virgin, which from her Infancy was so subject to this Disease, that with every light passion of the mind she was taken therewith, taken with a violent Syncope which ushered death in by a sudden return of blood and spirits to her heart; for when she should have been married to a fine young man which loved her dearly, and her Parents, Friends and Kindred were solemnly met about it, they gave her a Pen to write her hand to the Contract; but she having not fully written her name, fell down dead upon the ground: hence we easily conjecture, that there was a great and sudden retraction of the Blood and Spirits to the Heart by a vehement passion of the mind which choaked the natural heat, and the Spirits therein, of which she died suddenly.

Petrus Salinus Diverfius saw (as he reporteth, *Lib. de aff. part. cap. 4.*) a Girl of fourteen years old fell into a Syncope from abundance of cold and thick blood gathered about her heart and the great vessels; for having for a whole day a heaviness of head with giddiness and disturbance, she died the next day after suddenly: after being opened, the blood appeared so congealed in the great Artery and *Vena Cava* or hollow Vein, that taking it by the end, you might draw it out like a Sword from a Scabbard.

Wherefore we judged, That the sudden death came from the interception and stopping of the Veins by congealed Blood.

This happeneth seldom, for you shall seldom see Blood in dead Bodies so congealed, for the veins have such a property to retain blood, that even after death they keep it thin, though without them it groweth always thick.

But *Salinus* gives the Reason of this Congealation, by comparing it with blood without the Vessels, which as soon as it is cold, is congealed; and the sooner from the coldness, thickness and sliminess of the Melancholick or Phlegmatick humor therein contained.

Something like to this may befall blood constrained in the Veins, which abounding with vicious juice thick and cold, doth so fill the greater Veins, that it stops the spirits, and so extinguisheth them; and then the blood grows cold and thick, from those humors which otherwise would have been thin.

The *Spagyrics* refer this to a congealing Spirit, made of a peculiar and extraordinary mixture of humors, which since it seldom happeneth, the disease is very rare; And truly a simple Refrigeration cannot cause that concretion, for then in dead bodies, especially in Winter, the blood would always be thick in the Veins, but we find it always thin: but we may suppose that this congealing Spirit is like that which causeth a Catalepsis or Congelation, which makes the parts inflexible.

The Chymists do acknowledg such kind of Congealing Spirits to be in many Creatures, Vegetables and Minerals; such as are reported to be raised out of the Earth, in some Histories of Men and Beasts who have been congealed by filthy vapors coming from Earth-quakes or Dens, so that their bodies became presently stiff. And *Cardanus* saith, That such Spirits are in Thunder-bolts, in his History of the eight Mowers, who supping under an Oak, were struck stiff, and remained as at first, the one seeming to Eat, the other to reach the Pot, and the other to Drink.

DIAGNOSTICK. The Signs to know this Disease by, either is from the Subject which is more capable to receive it, or from the Fit either coming or present, or from the Causes that produce it.

The Subjects which are most fit to receive a Syncope are men, who by some natural debility or weakness from some Disease, became faint-hearted. Women rather than Men, especially in their Terms, or with Child: As also they who have fine Constitutions, subject to the Jaundice, Spleen, or Melancholly.

These things signifie that a Syncope is coming to them who are subject to it; Anxiety and sudden disturbance of mind, heaviness in the head, giddiness, an apprehension of divers colours, green and yellow, a sudden and often change of the colour in the face, and of the beating of the Pulse.

When *Leipothy* is present the same signs are, but greater; and there is often a cold sweat, as also the sick complain of their faintness.

But these signs shew a Syncope, a sudden failing of all strength, a slow pulse, low, and at length stopping, a pale and blewish face, coldness of all the body, especially externally; a cold sweat especially in the Temples, Neck and Breast, from whence the Disease is named.

The Signs of the Causes are commonly manifest, for Feavers malignant, acute, syncopal or fainting, cause a proper Syncope or Swooning, are easily known: as also those external Causes which make a sudden Syncope, may be plainly seen; as Anger extraordinary and Joy, a sudden Fright, stinking smells, great bleeding, and other large Evacuations, long watchings and fasting, much lechery and grievous pain.

These things do signifie that the humors and the body are thin, a sharp nose, hollow eyes, temples fallen; and the gnawing of the mouth of the Stomach, trouble of mind, pricking, heat and great pain do shew abundance of Choller.

When

When there is abundance of crude humors, you may know by the enlarging of the body, swelling about the breast, a pale colour, black and blew, a small, obscure and unequal Pulse.

A swooning by way of Sympathy from other parts, is known by the signs of those parts affected; so that if it come from the stomach, that hath been distempered with loathing, vomiting, gnawing, the Mouth hath been bitter and dry, and the like. The same Judgment is to be taken in other parts; but if you see no sign of any other part affected, you may conclude that it comes principally from the Heart.

Moreover, A Syncope is distinguished from other Diseases, by its proper signs. From an Epilepsy, because that hath a Convulsion, but a Syncope not: From an Apoplexy, because in that the breath is stopt, and there is often snorting, and the Pulse is much abated, except when Death is at hand; but in a Syncope the Pulse is almost gone, and the breath is free. It is distinguished from the Mother, for in that the breathing parts are most affected, so that the Patient is almost strangled, but the Pulse is not much altered, nor the colour of the face, but keeps its natural complexion, and sometimes is higher coloured; but in a Syncope breath is not stopt, but the Pulse is almost gone, and the face is pale: But sometimes a Syncope is joyned with the Suffocation of the Mother, and then the Pulse is not perceived.

PROGNOSTICK. The Prognostick of this Disease is first taken from *Hippocrates*, Aph. 41. Sect. 2. *They who often and violently faint without a manifest cause, do die suddenly.* For it is said, A great Syncope doth quite take away the strength from the Heart.

A Syncope from which a man is not recovered by Rose Water, thrown in his face, and Wine given to drink with neezing-powder put into the Nose, is deadly.

When one is raised from a Syncope, health is not to be promised; for if this Pulse return not, but his colour be wan, and he still be cold, he will quickly relapse, in which is danger.

That Syncope which comes from immoderate evacuations, fear, sorrow, or some evident cause, is of less danger than that which comes from an Internal Cause.

CURE. As for the Cure, because it comes from divers Causes, it must be various.

But of what cause soever it come, in the time of the Fit these are good, Lying upon the back, throwing of cold Water in the Face, provoking to neez, putting of strong Wine, Cinnamon, or Imperial Water, Aqua vitæ, Cœlestis, and the like into the Mouth, holding of hot bread to the Nose, loud calling and shaking, stopping of the Nostrils, wringing of the Fingers, pulling of the Hair, rubbing, binding and cupping.

But in respect of the Causes that are divers, you must vary the Cure thus:

If it come from want of Meat, he will be cured with strong Wine, and a Toast or Sop; also with nourishing Broths, and restoring distilled Waters among other things, a dish of Eggs with Sugar, Wine and Cinnamon described in the following Chapter.

If it come from thinness of the Humors by which the Spirits do easily fly away, give him sweet things, and meats of good Juyce, and thickning; let the Pores of the Skin be stopt with Oyl of Roses and let the Patient stay in a cold place.

If it come from the Mother, you must give Medicines for that.

If it come from some evil quality, give Cordials and Antidotes, such as are prescribed in malignant Fevers.

If from Poyson, give things to expel it: First a Vomit, and then Treacle; and then if he feel burning or gnawing in the Guts, let him take Milk or Butter, or fat Broth, or cooling Cordial Potions.

If it come from immoderate Evacuation, let the Patient be refreshed with Scents, Meat, Drink, Sleep and Rest.

If from too great loss of Blood, lay him upon his Bed with his Head backwards, dash his face with cold Water, give him a little Wine with cold Water.

If it come of too much Purging, give him new Treacle, or old if you cannot get new, with two grains of Opium dissolved in Wine, or three grains of Laudanum which is better. And let the Belly be anointed all over with this following Oyl.

Take of Oyl of Myrtles and Quinces, of each one ounce and an half: Oyl of Wormwood one ounce; with a little Rose Vinegar, mix them and anoint often.

Give a Clyster of steeld Milk with three Yelks of Eggs, and two drams of Philonium Romanum.

Use Frictions of the Arms and upper parts, give him a Sop in Wine, or Wine alone.

And lastly, Every Evacuation, whether it be of blood from the Nose, or Womb, or other parts, or of humors by Vomit or Stool, must be stopped with their proper Medicines prescribed in their several Chapters.

That Syncope which comes from too much sweat, is cured by Medicines that restrain sweat; as with cold, or Rose water alone, or with a little Vinegar sprinkled upon the Face and Hands. Al-

so let the Air be cooled with the same Water and with Fanning. Apply cold Epithems to the heart made of Rose, Sorrel, and Borrage Water, with Powder of Diamargariton frigid, with a little Wine to make it pierce.

You must also give often cooling Juleps made of Syrup of Sorrel, Violets, and Apples, of Lemmons with cooling matters, and Lapis Prunellæ. Let the Pores be closed with anointing the Skin with Oyl of Roses, Myrtles of Mastick. Let him abstain from Wine; let him not be rubbed, but let him move often gently, being lightly covered.

Let his Bed be perfumed with this Powder following :

Take of the flowers of Water-Lillies, Red Roses, of each three ounces : the best Labdanum, half an ounce : Storax two drams : Myrtles, and grains of Sumach, of each two ounces. Make a Powder.

If it come from suffocation of the Spirits, you must call them forth by Frictions, Ligatures, Cupping-glasses, and the like. And if this Suffocation came of Repletion, you must bleed plentifully, but by degrees.

If it comes from Terror and fear, you must also bleed, lest it cause an Obstruction or Inflammation.

CHAP. II.

Of the Palpitation, or beating of the Heart.

AS in Syncope the motion of the Heart is diminished, so in this Disease it is depraved. It is wrongly stiled by some a trembling of the Heart, when trembling is a passion of the Animal and Voluntary Motion, and is not proper to any parts, but such as have voluntary motion.

Galen in his Book of Trembling, Palpitation and Convulsion, saith, That Palpitation comes only from the Disease that is from the Cause which lifteth up, and depresseth the part, without any help of the Faculty; but trembling comes partly from the Faculty, partly from the Disease. Hence it is that many using the word Palpitation indifferently to any part, think it is in the Heart, as in the Skin and Muscles, in which it comes from wind driven violently thither; for if the Heart be moved as a Bladder by water or wind, they suppose that to be a Palpitation. But the reason is different; for the Skin and Muscles cannot naturally dilate and contract themselves, but by Diseases. But the Heart hath a natural Faculty to contract and dilate it self, therefore a Palpitation cannot be without its motion. And they do in vain muster up *Galen's* Reasons so thought by them, to prove that the Palpitation of the Heart comes not by Nature, but by a Disease, or cause of a Disease. For *Galen* in all those places speaks of no other Palpitation than that which is in the skin and other external parts, and not of the Palpitation of the Heart, which is of another nature; and *Galen* 2. de sympr. caus. cap. 2. saith, that the Palpitation of the Heart and Arteries is different from that of the other parts.

Therefore the Palpitation of the Heart is an immoderate and preternatural shaking of the part, with a great Diastole or dilatation, and a vehement Systole or contraction, which sometimes is so great, that as *Fernelius* observes, it hath often broken the Ribs adjoyning, and sometimes displaced them which are over the Paps; and sometimes it hath so dilated an Artery forth into an Aneurism as big as ones Fist, in which you might both see and feel the Pulsation.

This immoderate shaking of the Heart comes from the Pulsative Faculty provoked.

But here may be objected, That in Feavers all these things are found, for this is an immoderate Systole and Diastole, by the provocation of the Faculty through some troublesome matter, or by increase of heat in the Heart.

To this we answer, That the motion of the Heart in Feavers is distinguished from Palpitation, only by its degrees, and the depraved motion of the Heart when it is vehement, is called Palpitation; but if it be not vehement, it is called a quick, great and swift Pulse, and is referred to the differences of Pulses.

CAUSES. Now the efficient Causes of this Palpitation may be referred to three Heads: Either it is somewhat which troubleth and pricketh, or necessity of Refrigeration, or defect of Spirits; which two later may be referred to the increase of Custom.

The molesting Cause is most usual, so that many Authors knew no other, the others are rare, and that is either a Vapor or Wind which troubleth the Heart either in quantity or quality, or both. The quality is either manifest or occult.

A Vapor troublesome in a manifest quality, is either in the Heart and its parts adjoyning; or it is sent from other parts; and this suddenly getting to the innermost parts of the Heart, doth stir up the Expulsive Faculty, which being naturally very strong, ariseth powerfully with all its force to expel the Enemy.

In the Heart, and thereabout, especially in the Pericardium, are gathered sometimes cold and thick Humors, which send up vapors to the Ventricks of the Heart, which cause Palpitation.

But from more remote parts, vapors and wind are sent to the Ventricks of the Heart; as from the Stomach, Spleen, Mother, and other parts of the lower belly.

Many times a Vapor, that troubles the Heart by an occult quality, ariseth in malignant Feavers, Plague, and after Poyson, and sometimes from Worms putrefied, and the Terms stopped from corrupt feed, or other putrid matter, which do much stir up the Expulsive Faculty thereof.

Divers Humors do molest the Heart, either with their quantity or quality; so too much blood oppressing the Veins, Arteries, and Ventricks of the Heart, so that they cannot move freely, makes a Palpitation by hindering motion, which that the Faculty may oppose, it moveth more violently. So Water in the Pericardium, being in great quantity, doth compress the substance of the Heart and its Ventricle, so that they cannot freely dilate themselves. The same do Humors flowing in abundance to the Heart, as it happens sometimes in Wounds, Fear and Terror.

Humors offending in quality hurt the Heart, if they be venomous, putrid, corrupt, sharp, or too hot, especially burnt Choller coming to the Heart, and provoking its expulsion.

Also Tumors, though seldom, cause this Disease; as Inflammation of the Heart, Imposthumes, or Swelling in the Arteries of the Lungs near the Heart; which *Galen* saith befel *Antipater* the Physician, 4. *de loc. aff.* by which, after an unequal Pulse, he fell into a Palpitation and an Asthma, and so died: so *Dodonæus* reports, That he found a Callus in the great Artery next to the Heart, which caused a Palpitation for many years. Also Tumors in the Pericardium, whether they be without humors and scirrhus, or without humors in them, as the Hydatides, or watery Pustules and little stones; bones and pieces of flesh are sometimes growing in the Heart, which cause Palpitation. So *Platerus* reports, that in one who had a long Palpitation, and died thereof, there was found a Bone in his Heart. But *Schenkius* reports, That in a Priest (who was from his youth to the age of forty two) troubled with a Palpitation, there was found in the bottom of his Heart an Excrecence of flesh which weighed eight drams, and resembled another Heart.

The second Cause of Palpitation is necessity of refrigeration, which is, when there is a preternatural heat in the Heart, by which the Spirits are inflamed within; and therefore the motion of the Heart and Arteries are increased, that what is spent may be restored, and the heat cooled; and this comes sometime from an internal cause, which is rare, but oftner of an external, as anger, vehement exercise, and the like. As *Platerus* observed in a young man, who being hot and angry at Tennis, fell into a Palpitation of the heart, and so died.

The third Cause, is the defect of Spirits which comes by hunger, watching, anger, joy, fear, shame, and great Diseases, and other Causes which do suddenly dissipate the Spirits, which defect the heart labouring to repair, that it may beget more quick and plentiful, and send them into the whole Body sooner, it doth enlarge its motion, and make it quicker.

You must observe for conclusion, that it is more ordinary to see a Palpitation which comes by consent from other parts, than from the Heart it self; for it hath a consent with all parts by the Veins and Arteries, by which vapors, wind and humors are sent. Which all shall be shewed in the Diagnosis following.

DIAGNOSTICK. The Diagnosis or knowledg of this Disease is directed either to the Disease, or the Causes which produce it.

The Disease is subject to sence; it may be felt with the hands, sometimes seen and heard; for the Artery may be seen to leap especially in the Jugular. And *Forestus* saith, It may be heard, by an example of a young man, that they who passed by might hear it by laying their Ear to the Window.

Also the Causes are distinguished by their Signs: A hot distemper is known by the greatness of the Pulse and swiftness, by a Feaver and heat of the Breast, by great and often breathing, and desire of cold things.

If the Palpitation come of Wind it quickly comes and goes, and is presently raised by little motion, and the breath is difficult, with a trembling sometimes at the knees, mists in the Eyes, noise in the Ears, and sometimes pain of some part, which quickly is gone; but you must gather the nature and quality of the Vapor by the signs of the humor which aboundeth in any part, because vapors do always arise from humors.

If the Palpitation come from humors in the heart, the Disease doth not come so suddenly, and continueth longer, and you may know what kind of humor it is by the signs of the humor which abounds throughout the whole body. And especially if it be from blood, from which it most often proceedeth; and this is known by a divers and unequal Pulse, sometimes great, sometimes small, slow and swift, to which the breathing answereth in proportion, the Patients heart seemeth to be bound and oppressed, as appears by the exceeding heat, distension of the Veins, redness of Face, the time being Spring, the Age, Region and Diet causing blood to abound.

That

That which comes by consent from other parts, is known by the proper Signs of the parts affected, so we know that it is from the stomach, when there is want of appetite, loathing, vomiting of base Humors, and gnawing at the stomach. A troublesome breathing about the Pancreas or Spleen, or any other Disease of the Spleen, sheweth that the matter lurketh there, from whence the vapors fly to the Heart; so suppression of the Terms, and Hysterical Fits, declare that it comes from the Womb.

The Water abounding in the Pericardium is harder to be known, but we may conjecture, if the Pulse be weak and faint, and the Patient bemoaneth himself, that his heart as it were is sometimes in Water, and is suffocated, and if it be constant, and he incline to an Atrophy or Hædick.

If malignant humors cause it, there will be great change in the Pulse, a loss of strength, sometimes fainting, and other signs of malignity.

If it come from a Tumor, there is remarkable variety in the Pulse, and the motion of the heart is different from the natural, very unequal and inordinate; and if the Humor be hot, there will be great inflammation in the body, great thirst, difficulty of breathing and fainting will follow with death: but if the Tumor be hard, and in the Pericardium, the Disease is constant, and the Patient decays by degrees, without any manifest cause: if flesh, or any more solid thing grow to the heart, there will be a continual Palpitation from the beginning of the Disease to the end of life.

Lastly, You may know when it comes by want of Spirits by the precedent causes, which destroyed the Spirits, and by the quick and small Pulse, and when it comes from the least labour or motion. Sometimes the like befalls them that are well from walking or other motion, with a change of Pulse and a resembling Palpitation.

PROGNOSTICK. The Prognostick is to be taken thus: It is dangerous from the hinderance of the motion of the Heart, by which life is preserved, and it brings Syncope and Death: For it is a true Observation of *Galen*, Com. Aph. 41. Sect. 2. and 5. de loc. aff. cap. 2. All that youth, or in declining age, are troubled with the Palpitation of the Heart very much, die before they are old; for the often Palpitation is a sign that the Vital faculty was very weak.

A Palpitation by propriety is worse than by consent, and sometimes deadly. And that which is of an internal is worse than that which comes of an external Cause, unless it be from Poyson, or some great wound.

If it comes from a Tumor, or solution of Unity, it is incurable.

CURE. The Cure is various, according to the variety of the Causes; and first that which comes from a peculiar distemper of the Heart and Pericardium, is incurable; therefore we must look only at the Cure of that which comes by consent, which depends upon the divers Diseases of the parts, whose Cure must be fought in their proper Chapters.

But besides those Remedies which take away the Cause, you must use those which assuage the Symptomes, by refreshing the heart, and strengthening it, and which disperse the vapors which arise from melancholy, or crude or waterish Humors; as Cordial Juleps, Opiates, Epithems, and Perfumes, which are prescribed in weakness, and these that follow.

Take of Conserve of Balm, Rosemary-flowers, Borrage-flowers, and Clove-gilly-flowers, of each one Ounce: Confection of Alkermes and old Treacle, of each one Dram: The Powder of Diamber, and Dimoschi dulcis, of each one Scruple: with Syrup of Citron Barks make an Opiate, which let him take often.

Take of Bugloss, Rose, and Orange-flower Water, of each two Ounces: the Syrup of Clove-gilly-flowers, one ounce and an half: Cinnamon-water half an ounce: the Spirit of Roses two drams: Confection of Alkermes one dram: mix them, and give two spoonfuls now and then.

This following Liquor which imitateth the Juyce of Hearts described in the following Chapter, is good.

Take of Hogs or Sheeps Hearts three: Cinnamon and Cloves, of each one dram: Lettuce and Sorrel seed, of each one dram and an half: white Wine two ounces: Borrage, Scabious, and Rosewater, of each one ounce and an half: Confection of Alkermes one dram: boyl them all between two Dishes, and let him take two spoonfuls of the Liquor morning and evening.

Take of red Roses and Rosemary-flowers, of each two drams: Lavender flowers one dram: Angelica seeds, Citron peels, Cloves, Cinnamon and Mace, of each half a dram: Saffron one Scruple: Musk and Amber-greece, of each six grains: Make a Bag with red Silk, and Sprinkle it with Rose-water and white Wine, and apply it warm to the Heart.

Take of Oymment of Roses half an ounce: Oyl of Cinnamon and Cloves, of each six drops: Musk and Amber-greece, of each four grains: Mix it for a Liniment for the Heart.

Purging Clysters and Carminative to expel Wind are often to be given.

But in the Fit, it is best to open a Vein: And *Galen* witnesseth, 5 de loc. aff. cap. 2. That he never did it without profit.

Some apply Cupping-glasses without Scarification to the Breast, which they say are excellent to disperse Wind there contained. Others to the *Hypochondria*, when the Matter of the Disease is there.

But *Zacutus Lusitanus* applied a Cupping-glass with Scarification to the heart with wonderful success, as you may read in *Prax. Admir. Obs.* 133. lib. 1.

Others commend true Rhapontick given to two scruples in Wine, or Wine wherein the same hath been steeped.

Chap. 3. Of Weakness.

Although Weakness of strength doth generally comprehend the hinderance of all Actions Animal, Vital, and Natural; yet more particularly it comprehends the Vital, which are known by a weak Pulse: yet this weakness useth to be found in all great Diseases, in which Nature doth yield, or with difficulty resist the Cause.

Therefore as in Palpitation the Action of the Heart, that is Pulsation, is depraved; so in Weakness it is diminished.

Which is the same with a Syncope, but it differs in this, In a Syncope it is so little that it is hardly perceived; but in weakness the Pulse is manifest and not so little.

In this also the Animal Faculty is always offended; whence comes weak motion without hurt of the Brain, Nerves or Muscles, but from the defect of Vital Spirits which are not so sufficiently sent to the Head that they may be made Animal.

CAUSES. The immediate Cause of Weakness is defect of the natural heat and spirits from which the life and strength of the parts do depend.

And this Defect is in every part from the Defect of Vital Spirits, and heat flowing from the Heart.

Now the Vital Spirits are defective, either because they are not bred in many; or because they are dissipated after they are bred or corrupted, or suffocated, as we said in a Syncope; where there is this difference, That in a Syncope the Causes of defect of Spirits do suddenly produce their effect: but in Weakness they operate by degrees. And therefore in Syncope and Leipothymia all the vital spirits, almost, do suddenly fail, but in this there are fewer than ought to be communicated to every part.

Moreover, When the natural heat wants not only adventitious heat, but also radical moisture to feed upon; if this moisture be wanting and diminished, the natural heat must be less, and the strength abated.

Now the Causes which hinder the Spirits from being generated, or maketh them disperse themselves, or corrupt, or suffocate them, are propounded in the Treatise of a Syncope.

DIAGNOSTICK. The Diagnosis of this Disease needs no explication, because it is manifest, and the Patients do complain of their Weakness. But the Signs of the Causes were propounded in the Syncope.

PROGNOSTICK. The Prognostick depends upon the various disposition of Causes, for as they are greater or less, there is more or less danger.

CURE. The Cure of this Disease is to be directed to two things, To the taking away of the Cause, and the restauration of the Heart and vital Spirits.

The causes are almost all great Diseases, in which either Nature yields to, or resisteth with difficulty, therefore the taking away of the Cause belongs to the Cure of almost all Diseases: which you must take from their proper Chapters.

But the strengthening of the Heart, and restoring of the vital spirits are to be here declared; sometimes to be preferred before the Cure of the Cause, when death seems to be at hand: but we must always take heed lest when we increase the strength, we increase the Cause of the Disease: And therefore in a hot Disease you must use more temperate Cordials; but in a cold Disease those that are more hot.

First then mix Cordials in his nourishment, as Confectio Alkermes, or Confectio de Hyacintho in Broths, or with pleasant Wine or Cinnamon Water, if there be great weakness.

Boyl also between two dishes a piece of a Leg of Mutton, after the Skin and Fat is taken off, and after that let the Patient drink the Broth, being strained, at one draught. Or,

Take the Flesh of a Capon after the Skin and Fat is taken away, cut it in pieces, and put it in a glassed Pot well luted, and set it in Balneo Mariæ to boyl for five hours, then let the Patient take two or three Spoonfulls of the Liquor in all his Broths.

Or you may make a distilled Water thus :

Take a Capon or an Hen, after the skin is taken off and the fat, cut it in pieces ; then pour upon it Water of Bugloss, Borrage, Sorrel, Roses and Orange Flowers, of each half a pound ; the Powder of three Saunders, *Aromaticum Rosatum* and Cinnamon, of each half an ounce ; yellow Saunders one ounce, Lemmons sliced, three ; distil them according to Art, which must be given every hour by the spoonful.

The Juyce of Legs of Mutton only is of much use.

Half roast a Leg of Mutton, and slash it upon the Spit ; take the Juyce and boyl it a little in the dish, and give it either alone, or with broth, or with yelks of eggs.

Valeriola doth much commend the Juyce taken out of Sheeps Hearts. And *Zacutus Lusitanus* confirms it by his experience, saying, That he with this only Medicine a month continued, cured a rich man, who often swooned through weakness of the Vital Faculty, and resolution of the Blood and Spirits, when many other Medicines had been used in vain.

The Juyce is thus taken forth :

Slit the Heart of a Sheep or Goat in the middle, then wash it well, and last wash it with Rose water ; then cut it in slices and put it into a glassed Vessel with a few Cloves, and no other Liquor. And after the Pot is well luted, put it into the Oven after it is drawn, till the Juyce come forth. Give this to the Patient to drink.

The *Italians* use Caudles of the yelks of Eggs, Wine, Sugar, and Cinnamon, which is very restorative.

Zacutus Lusitanus makes a fine dish of twenty yelks of Eggs ; as you may see in the 107 Observation, Lib. 2. of his Admirable Practice.

You may make Cordial Juleps thus :

Take of the Water of Bugloss, Roses and Orange Flowers, of each one ounce ; Syrup of Apples and Lemmons, of each half an ounce ; Confectio *Alkermes* one dram, Cinnamon Water two drams. Make a Julep.

Or make this following mixture :

Take of white Sugar two Ounces, moisten it well with the best Cinnamon Water ; then put to it as much Spirit of *Vitriol* as is sufficient to make it sharp ; then add of the Essence of Cinnamon four drops : the Essence of Mace, Nutmegs and Annis seeds, of each three drops ; the Essence of Cloves two drops : Mix them, and take it either by it self, or in Broth.

You may also make a restoring Opiate thus :

Take of Conserve of Roses, Bugloss, Borrage, and Clove-gilly-flowers, of each one ounce ; Citron Barks, and Nutmegs candied, of each three drams ; one candied Myrobalan, Confectio *Alkermes* half an ounce, the Spirit of Roses and Essence of Citrons, of each half a dram ; the Essence of Cinnamon six drops : With the Syrup of Apples make an Opiate ; take it often.

This Water following is excellent.

Take of the Jelly of Harts-horn drawn with white Wine four pints ; the Blood of a Lamb and a Calf cleansed with the hand from all fibres, of each two pints ; Muschadel, Canary and Malago Wine, of each three pints ; of Calfs Hearts cut in pieces four ; Crumbs of new white Bread dipped in Milk two pound and an half ; the Juyce of Balm one pint and an half ; Rose and Orange Flower Water, of each one pint ; great Citrons sliced three, Cinnamon four ounces, Mace one ounce. Put them in a large glass still, and still them in *Balneo Mariæ*.

You may make a most excellent and precious Cordial Water after this manner :

Take of Amber greece two drams, Musk two scruples, *Lignum Aloes* one dram and an half, the white part of Benjamin three drams : after they are bruised and mixed, put them into Spirit of Wine, and setting them upon a gentle fire, draw out the Tincture fully, and then filter off the Liquor, and draw off half the Spirit with an Alembick upon the Ashes with a very gentle fire ; keep the Liquor close stopped in a Glass, with a Cork waxed over, and a Bladder ; of which you may give two, three, or four drops, or in Juleps ; or in this following Syrup :

Take of Cinnamon Water four ounces, the best Rose and Orange Flower Water, of each six ounces : Mix them and dissolve therein as much Sugar-Candy as you can, and make it into a Syrup without fire ; with a spoonful whereof, mix four drops of the aforesaid Cordial Liquor.

Of the Ingredients remaining from the former Liquor, with as much of Damask Roses, and four times as much Benjamin, you may make Cake to perfume the Chamber.

Apply both Liquid and Solid Epithems to the Heart, and young Pidgeons slit and sprinkled with Cordial Powders.

Apply

Apply to the Stomachbags of Spices dipped in Wine. Let the Stones and privy Members be fomented with Confection of Alkermes dissolved in Wine.

Let the Arteries of the Temples, Hands and Feet be touched with *Confectio Alkermes*, adding a little Cinnamon Water.

Apply this following to the Nose.

Take of the Leaves of Balm, Basil and Marjerom, of each two drams; Citron peels, yellow Saunders and Cloves, of each one dram; Saffron half a scruple, Amber-greece six grains, Musk four grains: tie them in a Clout, and dip them in Rose and Cinnamon Water, and smell thereto often.

Or make a Balsom to anoint the Nostrils with the Chymical Oyls aforesaid of Nutmeg, Cinnamon and Cloves, with a little Wax.

The End of the Eighth Book.

D d 2

THE



THE
NINTH BOOK
OF THE
PRACTICE
OF
PHYSICK.

Of the Diseases of the Stomach.

The Preface.

AS there are divers Actions of the Stomach, so there are divers Hinderances of those Actions; which cause variety of Diseases: For this Part being to concoct Meat, and make the Chyles for the performance thereof, first it is constrained to desire Meat and Drink by the Appetite, which may be diminished, abolished, or depraved. When it is abolished, it is called Anorexia, and Apositia: When it is diminished, it is called Inappetentia, and Loathing. But when it is depraved, it is called Dogs-hunger, or Pica, or Malacia. Too great desire of Drink is called Sitis Morbosa. These Diseases mentioned do concern the attractive Faculty; they which concern Concoction, as it is diminished, abolished or depraved, are comprehended under the name only of Concoction hindered: If the Retentive and Expulsive Faculties be hurt, it consists in Vomitting and Hiccoughs. There are divers kinds of Vomittings according to the divers Condition and Nature of the Matter vomited forth. And because the Stomach is of exquisite sense of Feeling by reason of the Famous Nerve it hath from the sixth Conjugation; it is therefore as other sensible parts subject to pains; and it hath sometimes Tumors (as other parts) and Inflammations, Imposthumes and Ulcers. That therefore we may in this Book explain all the ordinary Diseases of the Stomach, we will comprehend it in Eleven Chapters. The first, Of Inappetentia, or Loathing of Meat. The Second, Of Fames Canina, or Dogs Appetite. The Third, Of Pica and Malacia, or Green-sickness. The Fourth, Of Sitis Morbosa, or diseased Thirst. The Fifth, Of Concoction hindered or hurt. The Sixth, Of Hiccoughs. The Seventh, Of Vomiting. The Eighth, Of Vomiting Blood. The Ninth, Of the Disease called Cholera. The Tenth, Of Pain in the Stomach. The Eleventh, Of its Inflammation, Imposthume and Ulcer.

CHAP.

CHAP. I.

Of Want of Appetite, or Loathing of Meat.

In *Nappetentia*, and Loathing, is either from the abolished or diminished Action of the Stomach : When it is abolished it is called *Anorexia* and *Apositia* ; but when it is diminished it is called *Dysorexia*, but by Custom *Anorexia*, and *Apositia* are used for both.

CAUSES. The Causes of this Disease are divers, which that we may bring into order, let us consider the Natural Causes of hunger or Appetite : These are called by *Galen* (*lib. 1. de symp. caus. cap. 7.*) Symptoms ; and are Five: The first whereof is emptiness of the parts. The second is the Natural Appetite of those parts so emptied. The third is the sucking and attraction of the Meseraick Veins in the Stomach and Guts. The fourth is the sense of their sucking in the Stomach. The fifth is the Animal Appetite which cometh from the Nerve in the mouth of the Stomach which comes from the Brain, and is endued with great sense and feeling. As also the Melancholick Humor which comes from the Spleen to the mouth of the Stomach, which with its sharpness gnaws the inmost Tunicle of the Stomach, and is like sawce to stir up Appetite ; which that it may be natural, it is necessary that all those Causes be in order ; for if there be any fault in either, then there is a hurt or hinderance of Appetite.

Therefore the first Cause which is Emptiness of Parts, if it be wanting there is no attraction made by them from other parts and the Stomach, and so there is no Appetite : now this emptiness is wanting either when the parts are filled with plenty of crude juyces, by reason of gluttony or drunkenness ; or for want of exercise, or usual evacuations, or when there is so much fat that it is sufficient to nourish the parts. Also the great stoppage of the Pores of the Skin, doth hinder the emptiness of the parts ; or great weakness of the natural heat, so that it can disperse none or but little of the substance of the parts : or the calling of that heat to the concoction of the matter of a Disease whereby the nourishment of parts is neglected, as in Feavers.

The second Cause is Natural Appetite, and the attraction of nourishment to the Stomach ; and this is depraved when the parts though empty, will not draw by the Veins, by reason they have lost their strength, but languish and forget their duty ; as hapneth in acute, malignant, pestilential, synteck, and hectick Feavers : And in immoderate Evacuations, as in the Flux of the Liver, Womb, Hemorrhoids, Bleeding at the Nose, great Sweat, much Lechery, long Fasting, and the like.

The third Cause is the Attraction of the Stomach by the Meseraick Veins, which useth to be depraved by stoppage of those Veins, by which means the empty parts cannot attract their Chylus, nor make the mouth of the stomach sensible : so we may perceive Children troubled with Struma, to consume by a long Flux of Chyle, by reason all the Mesentery is full of Glandules which stop its Veins, and hinder the passage of the Chyle to the Liver, by which means it is sent half concocted forth by siege, and the parts are deprived of their necessary nourishment.

The fourth and fifth Causes, which are sense of sucking, and Animal Appetite, do require a good disposition in the stomach, brain, and nerves : Therefore whatsoever can alter their dispositions, may also destroy Appetite ; so every great distemper of the belly, especially if it be hot and dry, doth hinder Appetite. Great heat by dispersing the moist substance of the stomach, doth take away Appetite ; as also great cold not only positive as when the bowels are so cold that they are stupified by Air, Water, Frost, Snow, and the like ; but also privative, when the native heat is spent, which *Galen* calls *Narcosis* or *Stupefaction*, as by long bleeding, Feavers and the like, by which the strength of the stomach and other parts is consumed. Evil also and corrupt Humors, whether hot or cold, do cause want of appetite : The hot are cholerick, adust, putrid, or virulent, whether they are bred in the stomach for want of concoction, or brought from other infirm parts.

The Cold Humors are, flegmy and slimy, gathered in the stomach by evil Concoction, or coming from the whole body, as in them who by often vomiting bring the corruption of other parts into the stomach.

Or from the Brain by Catarrhs in which the stomach useth to be troubled with Flegm : The suppression of the Terms and Hemorrhoids, also by choaking and smothering the natural heat, do also diminish the Appetite.

Moreover, the distemper of the Brain and Nerves cause that the sucking is not felt in the stomach in them who have lost or depraved the Animal Faculty ; therefore they are sick in mind, as in an *Apoplexy*, *Lethargy*, *Phrenzy*, *Madness*, and the like ; as also in a *Palsie* by reason of the Obstruction of the Nerve of the sixth Conjugation which comes to the stomach, or by reason of the *stupefaction* thereof, by the use of cold and *Narcotick* things.

DIAG.

DIAGNOSTICK. The knowledg of this Disease is manifest, for the Patient will complain of his want of Appetite, and loathing of Meat. But the Signs of the Causes are partly manifest, and partly to be discovered by Art.

And first, they which cause the want of emptiness, are known by former high feeding, repletion want of exercise, or evacuation, long sleep, and other causes of crude Juices; as also if the Body be full, and the Veins swoln. Also the thickness of the Skin signifieth the same, for that hinders the dispersing of the nourishment, as also some great disease in some particular part, by which there is a dispersing of the Natural heat in the whole body, so that it is so weak that it cannot concoct the nourishment brought to the parts, and cause hunger.

The signs of the second Cause are manifest, namely acute, malignant, pestilential and synteckick Feavers, strong evacuations, and other Causes, by which there is a great decay of natural heat in the parts, so that they cannot attract necessary nourishment.

The signs of the third Cause are obstructions, whose signs are known in the Diseases of the Liver, Spleen and Mesentery.

The signs of the fourth and fifth Cause, need a more curious search: And first, heat in the Præcordia, especially in the stomach, thirst, driness, and bitterness of the tongue and jaws, and a Feaver, do signifie a hot distemper of the stomach, and abundance of Choler. And if this hot humor do flow from other parts, the disease of that part will shew it, as inflammation of the Liver, or other part. But if no other part seem to suffer, you must conjecture that the fault is in the stomach, or that evil Meats have been received.

To these are joyned Cardialgia, Heart-scalding, Nausea or loathing, Vomiting and Purging, the Nature of which Humors are known by what is sent forth. A cold Distemper and much Flegm is known by cooling Causes, foregoing, or such as disperse the natural heat, and extinguish it; as also from the sense of weight in the stomach, from sharp belching, or from a slimy thick humor sent out of the Mouth, or by Stool.

The same is signified by a long Catarrh, and a Disease in some part which may send Flegm or Melancholy to the stomach, as of the Spleen, Womb, or the like. Also the Distempers of the Brain and Nerves are to be known by their proper signs.

PROGNOSTICK. As a good Appetite is good in all Diseases, as *Hip. Aph. 33. Sect. 2.* says, To be right in mind, and to be willing to take that which is brought, is good: so want of Appetite useth to be an evil sign. For it signifieth a great digression from the natural state; and it comes, as *Galen* teacheth, *Com. in 3. Epid.* either from evil Humors in the mouth of the stomach, or from the loss of the faculty, whose duty it was to be sensible of the want of nourishment, and consequently to desire it. So *Hip. in 1. Epid.* saith concerning men in Consumptions that died in the time of an Epidemical Disease, they always abhorred Meat and drink. And so *Galen*, *Comment in 3. Epid.* saith, that he hath seen many in a Plague time which could take no sustenance, and died. But some who were stronger, and took courage, and did eat, recovered. So in *Hip. 3. Epid. Sect. 1. Aeg. 2. Hippocrates*, who died the twenty seventh day *abhorred meat all the time, and in the last days could not tast.* And *sect. 2. of the same Book, Aeg. 6.* Eurianactis her daughter, who abhorred meat all the while, and drunk nothing worth speaking of, died twelve days after.

But we must observe, That loathing of meat is sad if it come from the destruction of the Natural heat; but it is not so dangerous if it come from abundance of evil humors, and Cacochymia; as you may see in *Hip. 7. Epid.* by the Son of *Cleomis*, who without a Feaver abhorred meat for two months, through abundance of crude and viscid Flegm, which at last he vomited up. So in the beginning of Diseases, and especially of Feavers, want of Appetite is not so dangerous, because then nature being busie about the concocting of filthy humors, is called from her usual desire of meat. But after, when the Feaver is appeased, and the humors that caused the Disease being spent, she returns to her old custome.

In Children, want of Appetite is worse than in others, because their substance is moist, easily dissipated, and requires more use of nourishment to restore them.

In Men recovered of a Disease, loathing threatneth a relapse, by reason the reliques of the Disease cause it.

In a continual disease, loathing and sincere dejections are evil, *Hip. Aph. 6. Sect. 7.* Loathing is an evil sign in long diseases; but they who are like to escape, have the contrary, that is, a good appetite. But sincere dejections coming do cause a worse Prognostick, because *Hippocrates* understands by sincere dejections, such as have no humidity mixed with them, when the humor alone without any water, is cast forth, whether Choller or Melancholy; for these stools do shew that all the natural humidity is burnt up by the heat of the Feaver.

In long diseases of the Guts, loathing of meat is evil, and with a Feaver worse; *Hip. Aph. 3. Sect. 6.* when there are deep and putrid Ulcers in a Dysentery, the Stomach suffering with the Guts doth

doth not well concoct, which effence arising higher, affects the mouth of the stomach with loathing. There are some in Dysenteries, who abhor meat from the beginning of the Disease, by reason of the evil humors which come from the Liver; for the superfluous part of them comes to the mouth of the stomach, which is not always dangerous. But in long Diseases when it is so, there is either a putrefaction about the Ulcer, or a great Inflammation, both which are desperate.

CURE. The Cure of this Disease, if it come from the distemper of other parts, must be by the Cure of it. But if it come only from a fault in the stomach, it is to be reduced to a hot or cold distemper joyned with Matter.

A hot distemper is to be cured first by purging of Choler gentle and often. And this may be made of Rhubarb, Myrabolans, Tamarinds, Syrup of Roses, or of Succory with Rhubarb: or if the Patient be subject to vomiting, you must give him a gentle one.

The same Humor is to be altered with Juleps or cooling Broths, in which you must not omit the Spirit of Vitriol or Sulphur; because all sharp things do not only allay Choler, but provoke an Appetite. Hence it is that we use all Sallets in Summer to provoke Appetite.

Or you may alter and purge this Humor at once with a convenient Apozeme, to which, for the stomach add half a handful of Sea Wormwood, and half an ounce of Citron Myrobalans.

After purging, Marmalad of Quinces is good to strengthen the stomach, or the Syrup mixed with Syrup of Wormwood, the Lozenges of Diamargariton frigid, or Triasantalon, or Diarrhodon abbatis, if there be a suspicion of obstruction. Or this Opiate:

Take of candied Lettuce, and Gourds of each one ounce; Conserve of Sorrel, Roses, Succory and Bugloss, of each half an ounce; red Saunders, Coral and Pearl prepared, of each half a dram: the Troches of Spodium and Sorrel Seeds, of each one scruple. With Syrup of Lemmons make an Opiate, of which let him take the quantity of a small Nut morning and evening, drinking after a little Wine and Water.

Anoint the Stomach outwardly with this Oyntment:

Take of Oyl of Roses, Myrtles, and Quinces washed with Vinegar of Roses, of each two ounces: all the Saunders, red Coral, Coriander seed prepared, and red Roses, of each one dram; Grana Kermes and Spodium, of each half a dram; white Wax as much as is sufficient. Make a Liniment, with which anoint the Stomach with your warm hand only twice or thrice in a day, putting in a little Rose Vinegar at the same time.

Or lay on a Rose Cake sprinkled with Rose Vinegar, or steeped therein, which you must remove before it groweth hot.

Lastly, In the continuance of the Disease a Bath is good twice or thrice used, by which many are brought to their former appetites.

Vinegar, and all sharp things are good with their Meat.

A loathing cometh from a cold distemper, when flegmy melancholick humors are gathered into the stomach, and hinder its office; or being drawn from all other parts of the body, as in them who using to vomit, draw the impurity of other parts of the Stomach, or from the Brain, Spleen, and Mother, and other parts.

In the Cure hereof, you must first look at the distemper of the parts from whence they come, which must be amended with Remedies laid down in their proper Chapters.

Then you must apply Medicines to the Stomach by evacuations of the humor offending, and strengthening the parts.

Evacuation may be made by vomit or stool.

By vomit, If the Patient be Nauseous, and easie to vomit, with Medicines for that purpose.

But if the humors be thick, and fastned upon the Tunicles of the stomach, and the Patient is not used to vomit, they must be purged, especially with Pills, because they stay longest in the stomach; as Galen sheweth, cap. 7. lib. 4. de sanit. tuenda. who exceedingly commends Pills of Hiera: which may be given to two scruples or a dram in the morning two hours before meat: and you may make them fresh, thus:

Take of the best Aloes washed with the Juice of Wormwood one ounce: Agarick trochiscated two drams: the Powder of Rhubarb sprinkled with white Wine one dram: Nutmeg and Spikenard of each half a dram: Salt of Tartar, Mastich, and Cinnamon, of each one scruple: With Syrup of Wormwood make a mass of Pills: of a dram whereof make six Pills gilded. Let him take them in the morning if you will purge much: or give half a dram two hours before dinner twice or thrice in a week: They may be quickned with Diagridium, if you will have them stronger.

If you fear the Liver is too hot, you may mix cool things, as red Roses, Saunders, Diamargariton; and make up the mass with compound Syrup of Succory.

Strong Pills are not good, because they will draw humors from other parts of the stomach.

If he cannot swallow Pills, you must give him Hiera to drink with a convenient Liquor. Or,

If a Potion shall be unpleasant, make an infusion of Senna, Myrobalans, Rhubarb, and Agarick in Worm-

Wormwood Wine, or the Stomach Decoction, dissolving in it a little of the Electuary of Citrons solutive, if you will make a stronger.

If this Disease comes from slow, slimy Flegm, before Purging you must dissolve it with Honey of Roses, and Oxymel, with Syrup of Hyssop and the like, with a cutting and cleansing Decoction.

Or this following Apozeme will do both :

Take of the Roots of common Acorus, Cypress, and Calamus Aromaticus, of each one ounce : dried Citron peels and Sarsa, of each six drams : Wormwood, Mints, Marjerom, Germander and Chamapity, or Ground-pine, of each one handful : Citron and Annis-seeds, of each two drams : Senna two ounces : Carthamus-seeds bruised one ounce : Agarick trochiscated three drams : Dodder of Thyme, or Epithimum Flowers, Sage, Rosemary and Lavender, of each one Pugil : boyl them to a pint and an half : in which dissolve of the Syrup of Wormwood and candied Citron peels, of each two ounces : make a cleer Apozeme, and scent it with a little Cinnamon and Powder of Aromaticum Rosatum for four mornings draughts : in the first and last whereof you may dissolve for the better Purging three drams of the Solutive Electuary of Citrons, with one scruple of the Powder of Rhubarb.

The use of Turpentine is good, because it cleanseth all the Bowels ; especially if you make it into Pills with Rhubarb.

It is not good to let blood in this Disease, except the liver be very hot.

After sufficient Purging you must come to strengthning, both internally and externally : Thus,

Take of Syrup of Wormwood one ounce : Let him drink it fasting many mornings, or Wormwood Wine.

Take Conserve of Mints, Citron Peels candied, and candied Nutmegs, of each half an ounce : one candied Myrobalan : of Confectio Alkermes three drams : the inward Skins of Hens Maws powdered two drams : Cinnamon and Aromaticum Rosatum, of each one dram : with Syrup of Mints make an Opiate : or candy them with Sugar of Roses : use it in the morning, drinking after it a little Wine.

Salt of Wormwood is good to be put to the aforesaid Medicines, or Oyl of Mints Chymical.

Or, Salt of Wormwood with Orange Peels, or either of them to half a Dram in Wine, or Broth.

This following Syrup is most excellent.

Take of the Syrup of Quinces, and Citron Barks candied, of each two ounces : Cinnamon Water one ounce : Oyl of Sulphur twelve drops. Mix them to be taken now and then a spoonful.

Claret Water is usual, and it is made thus :

Take of Cinnamon grossly powdered two ounces : steep them in one pint of Aqua-Vitæ in a Glass : in another glass put six ounces of Sugar with half a pint of Rose water : let these Glasses stand two or three days, every day shaking them often : then mix them both together and strain them by filtration ; keep the Liquor in a Glass close stoppt, and let the Patient take a spoonful or two fasting.

In Paris the Syrup of Wormwood made by Pena is highly esteemed ; made thus :

Take half a pound of candied Citron Barks sliced ; boyl them in equal parts of the Waters of Succory and Agrimony, make a strong expression, and put to it the Juyce of Quinces, and Wormwood water, of each half a pint : in which infuse for four days four ounces of Schœnanth in a close Vessel well glassed and set upon the Embers : dissolve in the straining as much Sugar as is needful : then boyl them to a Syrup, in which when it is hot dissolve one dram of Ambergreece : keep it in a close Glass.

Cinnamon Water alone is excellent good in a cold Stomach, or with other Medicines ; as Syrup of Wormwood, Mints or Coral : to which you may also put Ambergreece.

The Syrup of Cinnamon made with Aqua-Vitæ, according to Quercitanus Dispensatory, is no less powerful.

And Cinnamon Water distilled with Juyce of Quinces.

And also the Spirit of Mastich made thus :

Take three ounces of Mastich, one ounce of Galangal, half a pint of Spirit of Wine, digest them and distil them.

The Elixir Proprietatis, described by Crollius, is good, if you give twelve or fifteen drops in Wine they wonderfully strengthen the stomach.

You may make Tablets for the same purpose thus :

Take of the Pulp of Rinds of fresh Oranges, and Aromaticum Rosatum, of each two drams : white Sugar dissolved in Orange flower Water four ounces. Make Lozenges.

Tablets of *Aromaticum Rosatum*, *Opiata Solomonis*, and old Treacle are good for the same.

A Decoction of *Guajacum* or *Saxaphras* taken many days together with a little sweating, or without in weak people, is good in this Disease, being of long continuance.

Also Sulphurous and Nitrous Baths, as our *Bellilucana* being taken in great quantity many days, do powerfully cleanse the Stomach and Guts from all slimy filth.

Take of *Agrimony*, *Centaury* the less, and common *Wormwood*, of each half an handful: boyl them to half a pint, and add one ounce of Sugar, drink it, either in a cold or hot cause.

Hartman exceedingly commends the use of *Zedoary* in these words: The often use of *Zedoary* doth so strengthen the Stomach, as nothing more, therefore we may commend it, having tried it often, and never missed; you must eat it often.

Costans commends hot Wine thus: Hot Wine drunk ordinarily, doth amend the imbecillity of the Stomach; it is usually observed, that they who have been continually vexed with Wind and pain from an evil Concoction when they have begun to drink warm drink have been cured, and lived after a long time more comfortably.

You must give him Wine in Water, wherein *Coriander* hath been boyled, for his ordinary drink.

But oblerve, That if a hot distemper of the Liver meet with that cold stomach, as often it doth, you must give hot Medicines warily, and rather those that are temperate.

Zechius commends this Bolus following, in these words: That the Stomach may be warmed gently, and not dried, you can use no Medicine inwardly more powerfully.

Take of washed Turpentine two drams: Powder of *Mastich* half a dram: *Aromaticum Rosatum* half a scruple: Make a Bolus to be taken two hours before Meat.

This digestive Powder is usual to help Concoction.

Take of *Coriander* seeds prepared half an ounce; sweet *Fennel* seed and *Annis* seed, of each two drams; *Cinnamon* and *Cloves*, of each half a dram; Sugar twice as much as the rest: Make a Powder, of which let him take one spoonful every meal.

The Balsom of *Peru* is good, if you give a few drops in Wine one hour before Meat.

Or in form of a Pill, one or two drops in Sugar for many days.

There are some ordinary Medicines for this, *Hippocras* Wine, a Decoction of *Annis*, *Coriander* and *Cinnamon* mixed with Sugar for ordinary drink.

The Dukes Powder, commonly so called, made of two parts of Sugar and one of *Cinnamon*, to sprinkle upon all Meats.

A Salt to be eaten with Meat, made of *Coriander*, *Annis* seeds, long *Pepper*, *Galangal* and *Nutmeg*, mixed with an equal proportion of common Salt.

Some Grains of *Pepper* whole or beaten, taken fasting.

Acorns stuck with *Cloves* and *Cinnamon*, and candied with Sugar, *Citron* and *Orange* peels candied together. *Annis* seeds, *Fennel*, *Coriander* and *Cinnamon* infrosted with Sugar, all these Men may use as they please.

Citron peels are more pleasant than the rest, but because it will grow so dry, that it will hardly be chewed, we are often constrained to make it up in a Mortar with *Rose Water*, in the form of an Opiate.

Candied *Myrobalans* and *Nutmeg* may be used for the same, and be made up as the former, though they are so apt to grow hard.

The Essences of *Annis*, *Cinnamon*, *Citron* peels, *Nutmegs* and *Olives*, are excellent to strengthen the stomach, and they must be used as before in the Diseases of the Heart.

Of Meats, They which are salt do most provoke Appetite, and sharp things in a small quantity, and mixed with other things, lest they cool the stomach.

Outwardly apply Liniments, Fomentations, and Emplaisters, thus made:

Take of *Cypress* Roots, *Galangal*, *Flower-de-luce*, and dried *Citron* peels, of each two ounces: *Mints*, *Hyssop*, *Sage*, *Rosemary* and *Marjerom*, of each one handful; *Annis* seeds, *Barberries*, *Nutmegs*, *Cloves* and *Cinnamon*, of each three drams: the flowers of *Stoechas*, *Schoenanth*, and *Rosemary*, of each one pugil; slice those that must be sliced, and bruise those that must be bruised, according to art, and put them into two Bags with holes pricked through, and steep them in strong Wine, and lay them warm to the Stomach one after another.

Take of the Oyl of *Wormwood*, *Mints* and *Spike*, of each half an ounce; Oyl of *Nutmegs* two drams; Wood of *Aloes*, *Mace* and *Cinnamon*, of each one scruple: With a little Wax make a Liniment, which will be better, if you add six drops of Oyl of *Cloves*, and of *Musk* and *Ambergreece*, of each eight grains.

Also there is a Liniment of Oyl of *Nutmegs*, Balsom of *Peru*, or of Oyl of *Wormwood*, *Mastich*, and Balsom of *Peru*.

Take of the Emplaister of Mastich one ounce; *Aromaticum Rosatum* one dram: Oyl of Nutmegs as much as is fit to make a Plaister like a Buckler for the Stomach.

Crato doth wonderfully commend this following Plaister:

Take of Labdanum two ounces: Wax four ounces: Oyl of Nutmegs three drams. Make an Emplaister.

Galen adviseth (7 Meth.) not to keep these Plaisters long upon the part, for at length they will dissolve the heat.

Many Practitioners do not only apply these Remedies before to the Cartilage called *Xiphoides*, like a Sword, but also behind upon the thirteenth *Vertebra*, because the proper Orifice of the Stomach inclineth backward; but the thickness of the *Vertebra* is such, and of the Muscles under them, that the strength of the Medicine cannot pierce through the Stomach.

Take of Galangal and Calamus Aromaticus, of each three drams: Mastich and Cloves, of each two drams: one Nutmeg; dried Citron peels half an ounce: Annis seeds one dram and an half. Make a Bag of these being bruised, and put into red silk prick'd through, and into Muskified Cotton, to be worn always upon the Stomach.

The Skin of a Vultur dressed and worn upon the Stomach is commended for the same; in want of which, a Harts-Skin, or a piece of Scarlet may be used.

Chap. 2. Of Dogs Appetite, called Fames Canina.

HAVING in the former Chapter spoken of Appetite diminished and abolished, now we shall speak of it depraved. And this is done two ways: When it is either offended in quantity or quality. It offends in quantity, when nourishment is required in a greater quantity than Nature would; and this is called *Boulimia*, or Dogs Appetite. It offends in quality, when things are required which are evil or are not food, and this is called *Pica* or *Kitta*. Of the first we shall speak in this Chapter, of the last in the Chapter following.

The word *Boulimia* comes *apo to bou kai limon*, because the Particle *bou* put to the other words, increase the signification, as if it were compared to the greatness of an Ox. It is also called *Phagedaina*, which word is given to Ulcers which eat the flesh and enlarge, and therefore called *Ulcer a Phagedaina*, that is, spreading Ulcers. Now it is called *Fames Canina*, or Dogs Appetite, because they who have it are as hungry as Dogs.

But you may observe, that these two words, *Boulimia* and *Fames Canina*, are sometimes confounded, and used for the same thing; and sometimes distinguished, so that it is called *Fames Canina*, when after much feeding, they vomit like Dogs. But some purge rather than vomit, when Nature throweth down that which it cannot concoct. In *Boulimia*, vomit doth not follow, but sometimes *Leipothymia*. There are some who feed unsatiably, and yet vomit not nor purge, but concoct all; and if they have not presently more, are sick. As *Sennertus* reports of a Scholar, who was black coloured, who eat not only in the day, but night, and digested it without vomiting; he could not be satisfied with delicate Meats, but required gross; and therefore would eat no Bakers Bread, but such as the Country people made, and would eat as many raw Parsnips in a Summer morning as could be bought for six pence, without damage.

Hence it appears, that this Disease is a Symptom of an Action depraved, in respect of quantity, which action being increased is called Dog-like, or an Appetite beyond Natural measure. The part affected is chiefly the Mouth of the Stomach. The cause containing is sense of sucking, and vehement pulling, which stirs up the Appetite.

CAUSES. Galen, 2. de symp. caus. cap. 7. reduceth the immediate causes of this Disease to two Heads, in these words: Evil Appetites exceeding in quantity, which are called by some *Caninae*, are then, when either some evil sharp Juice biteth the Stomach, or when the whole body immoderately concocting, wants nourishment; for evil Juice which is cold biteth like the Natural sucking, and produceth appetite by the resemblance of Nature. The immediate cause of a preternatural Appetite, according to Galen, is first a vicious humor and cold, sticking to the Stomach. Secondly, want of Food by overmuch concoction.

Evil Humors sticking to the Stomach, cause immoderate Appetite, because they by their too much coldness, sharpness and sourness, do constringe, wrinkle, and pull the mouth of the Stomach, and so make a sense of feeling like a natural sucking, and beget a false Appetite.

This Humor is either sour flegm staying long in the Stomach, or many times Melancholy sent from the Spleen into the Stomach, which in a natural state, and a moderate quantity and quality begets a moderate and preternatural Appetite; but if it be preternatural and exceed, it makes the Appetite too great.

CAUSES.

The want of Food, by reason whereof the Veins do continually suck from the Stomach, either it comes from too great evacuation by bleeding, purging, vomiting, sweating, and the like; or from too great a Consumption of the alimentary substance, by reason of the immoderate heat of the parts; or the thinness of the humors and body, and looseness of the pores, watchings, baths, immoderate exercise, much venery; all which do dissolve the substance, making humidity: and by these, emptiness being caused, and want of food, the meat is carried from the stomach sooner than it ought.

Also this *Fames Canina*, or Dogs Appetite, may come from worms which devour the Chylus: as *Trallianus* reports, *lib. 7. cap. 4.* of a Woman in this disease, which voided a Worm twelve cubits long by the use of Hiera, and was cured.

The Hermetical Physicians do lay down another cause of this wonderful Appetite; namely, a certain dissolving spirit begot in the body, which by an inhærent property doth so readily consume whatsoever meat is taken, that it doth not allow nature a lawful and necessary bound of nourishment. This they call a hungry, devouring, salt, sharp, vitriol Spirit: For they say, as from divers salts, vitriol, nitre, common salt, and salt Armeniack, with the like, Aqua fortis is made by Chymistry, which will dissolve the hardest Stones, or Metals, into Liquor in a short time: so that Gold, which will not be dissolved in a month by a strong fire, in a quarter of an hour will be dissolved in *Aqua Regia*, and be turned into a Liquor of the same colour.

This Doctrine is diligently to be examined; for as the digestion of the stomach in its natural condition hath something to be admired by the curious Searchers into Nature: so the same being made preternatural, hath something to be wondred at.

This is wonderful in the Natural digestion of the Belly, that the hardest Meats are digested therein, and in three or four hours space, are turned into a Chylous Liquor, so thin that it may be strained through the narrowest branches of the *Vene lactea*: and that Dogs do turn the hardest Bones into the same Liquor, is not to be attributed to a stronger concocting heat; because Meat in a Pot, although the fire be never so hot, cannot in twenty four hours, or many days be converted into the same. The Galenists hold, that this comes from the faculty of the stomach, which faculty works not without an Instrument: because if there is an *Idiosyncrasia*, or a certain proportion of the first qualities, as is commonly reported, its chief action must be from heat: for cold, moisture or dryness, do nothing to that great dissolving of food: and heat, as it is said, hath not that power. Therefore the *Idiosyncrasia* is somewhat more unknown, and not to be expressed. Let us therefore search after it in the Macrocosm, or greater World, of which there is a great Analogy or Resemblance in the little World. And therefore the more witty Hermets say, that there is a great Spirit or acid liquor sent from the Spleen into the Stomach, which dissolveth the solid nourishment, and shortly converteth it into Chylous Liquor, and that is the principal Instrument of digestion. And some conjecture, that this may be made, because Birds who digest the hardest nourishment have a Spleen round about their Maw; for the flesh which is found about their stomachs, is like the substance of a Spleen; from whence there is a more noble use of the Spleen than what is allowed by the Ancients, who said, that it was only for the purging of the grosser sort of blood; because according to this opinion it serveth for concoction of meat. Therefore if the Spirit or sharp Liquor which comes from the Spleen when it is in its natural condition, makes a natural and moderate digestion: the same spirit being altered from its natural condition and defiled, or made sharper or more dissolving, it will sooner dissolve solid nourishment; and when they are so dissolved and thrown from the stomach, it will make a new immoderate Appetite. We do not conclude that this new Doctrine is certain and undoubted, but we only shew it, that solid wits may examine it. And we will talk of it again when we speak of the Causes of the hinderance of Concoction.

DIAGNOSTICK. The signs by which this Disease are known are manifest; for it will appear to them that eat, and to the standers by, that the Appetite is depraved, which causeth such devouring of Meat, which afterwards is thrown up by vomit, and then it is *Fames Canina*; and if vomits follow not, then there is fainting, with coolness of the extreame parts, and this is called *Boulimia*.

The signs of the Causes may be found by the Antecedents, Concomitants and Consequents. These are the signs of a cold distemper, and of sharp humors in the Stomach, belching, and sharp vomiting, crude dejections or stools, want of thirst, and external Causes of refrigeration afore-going. If it come from defect of nourishment, the Patient is lean, and there are causes present or fore-going of dissolving of the Humidity; and lastly, the signs of Worms shall be spoken of in their proper Chapter.

PROGNOSTICK. The Prognostick of this Disease is thus: If it come only from External Causes, it is not dangerous if they be presently taken away. And if it come from Worms, there is little danger, for when they are taken away, the Disease is cured.

But it is very dangerous, if it follow great evacuations and meltings of the body; especially if after meat, when the belly is yet full, there come a fainting; for when that which should most help, becomes unprofitable, it signifies a great distemper of the Stomach.

So a Dog-appetite continuing with Vomiting and great Purging, is dangerous, for it useth to end in an evil habit, dropfie, lethargy, consumption, and the like.

CURE. As for the Cure, because *Fames Canina* for the most part takes its Original from Melancholick and Flegmatick Humors fastned in the mouth of the Stomach; therefore Medicines must principally be directed to them; such as do empty and change the Humors, and also strengthen the part affected.

You must evacuate by Vomit or Stool with Medicines prescribed in the Cure of Want of Appetite from a cold cause: for although these diseases are contrary, yet they come from the same humors, different in the degrees of coldness, and second qualities, and such as diversly affect the Stomach.

Also the Remedies there prescribed to heat the Stomach, and strengthen it both internally and externally, are excellent, because they not only correct the cold distemper, but dry and cause thirst; and thirst coming, hunger is diminished.

Moreover, Wine plentifully taken, asswageth hunger, according to *Hippocrates*, Aph. 21. Sect. 2. And especially the Spirit of Wine, or *Aqua-vite*.

They do properly stay hunger, which do much moisten the Stomach, relax it, and assuage the sharpness of humors. As all fat things and Oyls, as *Villanovanus* reports, That one thus diseased did eat a hot Loaf dipp'd in Oyl; and a Woman drank the melted Suet of an Ox with as much warm Oyl at twice, and both did so disdain Meat, that they eat nothing in five days, and were cured.

Narcotick Medicines by dulling the too exquisite sense of the stomach, do lessen this Disease; and new Treacle is most usual for it, because besides its stupifying quality, it doth correct the malignity of the humors, which is some cause thereof.

But because these are to be used but seldom, and not without urgent necessity, sometimes you may use old Treacle, for the reason aforesaid, as also to strengthen.

Five or six grains of Amber-greece taken in a rear Egg, doth not only strengthen the stomach, but by a special quality cureth this Disease.

CHAP. III. Of Pica and Malacia.

P*ica* and *Malacia* are a depraved Appetite; by which, evil, unprofitable and hurtful things are desired.

It is called *Kitta* or *Pica*, from the Bird called a Pye, either in regard of the variety of colours, or because it eateth lumps of Earth; for Women in this Disease use to eat Earth and Chalk, and the like: It is called *Malacia* by *Pliny*, for these Women through weakness of mind and tenderness want that right and natural Appetite.

CAUSES. This Disease comes of evil corrupt Humors, which are gathered into the stomach by reason of its hurt Concoction, or else sent from other parts.

Flegmatick and Melancholick People are most disposed for the production of these humors, especially Women, to whom this Disease seems proper and peculiar: although sometimes Boys and Men (though seldom) have the same. Eating of evil Diet doth cause this, want of any natural evacuation, especially of the Terms, Sadness, Distemper of the Liver and Spleen, Obstructions and Weakness, divers Diseases of the Womb, and the like.

These vitious humors according to the divers degrees of distempers and other dispositions have a divers nature, from whence comes divers appetites of evil things. For since some humors are crude and inconcocted, others burnt and adust; some require sour things, sharp, bitter, and very cold, so that they are delighted with the continual use of unripe Fruits, Vinegar, Juyce of Lemmons, Pomegranates and Oranges, cold Water, Snow, Ice, and the like. Others desire Earthy, dry and burnt things, as Cloves, Cinnamon, Nutmegs, and other Spices, Salt-Ashes, Chalk, and the like.

This Disease is common to Women in the *Chlorosis*, or Green-sickness; to Women great with Child, and such as have their Terms stopped; which staying in the Body corrupt, and ascending do infect the stomach, from whence its Actions are depraved, and chiefly the Appetite is taken from its natural Condition.

Boys are sometimes troubled herewith, and especially if they are born of a Woman that hath the *Chlorosis*: Nor are Men altogether free from it, although it happen seldom; and they are especially troubled therewith who are Melancholick, have Obstructions, or want their usual Flux of the Hemorrhoids.

It is disputed much among Authors, whether a depraved Appetite require those things which are like to the Preternatural State or Distemper of the Stomach, or those that are contrary? *Galen* raised

raised the first dispute, cap. 3. *artis parus*, where he teacheth, That the Stomach being distempered, doth desire Contraries, and in its natural state and temper it desireth things like to it self. Which Doctrine Avicen followeth, *Fen. 13. lib. 3. tract. 2. cap. 10.* speaking thus, When there is an evil humor gathered in the stomach, different in quality from its own nature, then it doth require things contrary to it; therefore some desire Clay, Coals, Earth, Loam, Chalk, and the like, by reason of the quality that is in them, to dry up and cut that which is contrary to the quality of the Humors. But they who are in health desire judiciously rather things like, than contraries; for since fancy is much imployed in stirring up of Appetite, and is much stirred up from the disposition of the Body; it is probable that the humor predominating should move the fancy to desire things like unto it: For as Cholerick Men both in time of health and sickness do dream of Fire and Anger, and Flegmatick Men of Snow, Ice, and Waters; the apprehension of which things proceeds from the humors predominating in the Body: So when the seat of Appetite, the mouth of the Stomach, is affected by foul humors there long continuing, they do imprint their Similitudes in the fancy which stirs up the Appetite to desire things like, though never so contrary to reason, which is now overcome by force of imagination.

Moreover, If things contrary to the disease, or its cause were desired by the continual use thereof, the Disease would be cured; daily experience confirmeth this.

By which we are taught. That Virgins in the Green sickness, and Women with Child, do for the most part desire those things which are agreeable to their present distemper and evil habit, so that they who have Salt and Aduſt Humors long for Coals, Salt, Spices, and the like; but they who have Melancholy or Salt Flegm predominating, desire Vinegar, green Fruits, and the like.

As for the Authority of *Galen*, some wholly reject it; saying, that if it were true, that diseased dispositions should desire their contraries, all sick men, of evil habit, would desire meat of good nourishment; which is not true, for we often see that sick men desire evil meats, and refuse good; and we see that bodies inflamed, whether they are in a preternatural state, as in Feavers; or in a natural, as by violent exercise require cooling.

Some desire to reconcile this Opinion of *Galen's*, saying, That in this *Pica* the distemper upon the Stomach is habitual and connatural, and therefore doth cause an Appetite like to a natural, which is for things like it; which may be thus explained, When we say that every natural temper doth require the like, and every preternatural the contrary; the last is to be understood of distempers which come without overflowing moisture; for they which are with much moisture when it is sucked up by the Tunicles of the stomach, do rather desire things like the moisture with which they are wet, because the humor which now pierceth all the Tunicles, although it be noxious, yet it is not troublesome. On the contrary, when the humor only possesseth part only of the stomach, or is only in the bottom, the stomach desires the contrary to that which is offensive unto it: but if it possess the whole Stomach, and be soaked into its Tunicles, then the natural faculty is destroyed and so changed, that it doth not desire any thing but what is like to the humor so soaked in, and so it may be rightly said, that the humor was become as it were connatural.

Platerus and *Sennertus* do easily free themselves from these difficulties, by flying to an occult quality, and they take an occasion from hence, if the Patients so affected should require things like to the cause of the Disease, then by the plentiful use of them, the Disease would be exceedingly increased, but we see that they will devour Chalk, Clay, Coals, and the like trash, and not receive the least hurt thereby, by which men that are sound would be almost killed.

Moreover, They say that Women with Child will often void salt and sour humors, and yet not require salt or sour things, but the contrary. And lastly, they affirm constantly, that there is no agreement of Coals, Chalk, raw Flesh, and the like with the Humors. And therefore they say, That they must not rest in manifest qualities, and that the Cause of this Symptom and wonderful Appetite cannot be taken from them, but they must fly to some occult quality not to be explained.

Yet *Sennertus* confesseth, That it is probable that this Appetite depraved, should proceed rather from a like than a contrary quality: but what that quality is, cannot be explained, because the things which are desired have no agreement with the humors either sweet, salt or sour in manifest qualities.

We may Reconcile all these thus:

The desire of Trash is stirred up by humors of the like nature and temper, but these humors besides their native temper have a certain peculiar fault from corruption, which since it cannot be well explained, it may be called an Occult Quality.

DIAGNOSTICK. The Knowledge of this Disease is easie, for the Patient can relate it; it is manifest, that the part affected is the mouth of the Stomach, for that is the seat of Appetite. The Cause also may be found out by conjecture from the supposed desire of things like. For if they desire

fire Coals, Salt, and the like, we may gather that the Disease depends upon Salt and burnt humors, which will more clearly appear, if any of those humors be cast forth by vomit or stool, if there be sharp belchings or salt, a taste bitter, sour, or salt.

PROGNOSTICK. This Disease is Chronical, of continuance, but not very dangerous, if the Body by Nature or Art may be brought to its old condition, which is not very difficult. For in time the humor offending may be sent forth by vomiting naturally, or by Medicines; and the Terms of Hæmorrhoids stopt, which causeth this disease first, may in time be discharged; which if neglected, and Nature sink under the burden, great Diseases follow. For when the first Concoction is hurt, it is necessary, that the second and third be corrupted, from whence come great Obstructions, evil habits, and dropsies. Or if the humor be carried in greater plenty to the stomach, and partake of greater Malignity, sometimes it produceth violent Cardialgiaes, or Heart Diseases; from whence fainting, swooning, and sometimes death doth follow.

If Women in this Disease begin to abstain from trash, and to eat good meat with less disdain, it is a most certain sign of health at hand.

Women with Child use to be freed of this Disease about the fourth month, because then the Child is grown greater, and so consumeth more of the humors, and the Mother hath sent it forth by often vomitings; but if it last longer, 'tis dangerous; for it signifies that the evil disposition of the stomach hath taken deep root, which will hardly be pluckt up.

It is better for people in this Disease to desire sharp and sour things; it is worse, if they desire things contrary to nature, as *Avicen* teacheth, *Fen. 13. lib. 2. tract. 2. cap. 20.* for it signifies a greater distance from the natural state, which is harder to be cured.

CURE. The Cure of this Disease is divers, according to the variety of the Bodies affected.

In Women with Child, few Medicines are to be used, by reason of the unfitness of the subject, and danger of miscarriage, but you may give them gentle things, and such as were prescribed in the Cure of Want of Appetite, to cleanse and strengthen the stomach. Nor must you omit blood-letting, which done sparingly and often, is of great consequence.

But in Virgins sick of the *Chlorosis*, or Green-sickness, this Disease is cured with the same Remedies which shall be prescribed for the cure of *Chlorosis* in its proper place.

But for the *Pica* which is in men, which is very seldom, because it comes from Obstructions of the Liver and Spleen, you may use those things which shall be prescribed for the Cure of them.

CHAP. IV.

Of the Thirsty Disease, called Sitis Morbosa.

THe Appetite of Drink or Thirst may be three ways hurt, as that of Meat; by diminishing, abolishing and depraving; it is diminished many times by a sweet insipid humor, which moistneth the Tunicle of the Stomach, or from too much moisture in the whole body, from whence it is, that the parts do not draw the drink from the Stomach. It is abolished by acute Diseases through the interception of the sense, when the Mind is sick, or because the natural faculty is decayed by the extinction of the natural heat: from whence *Hip. saith, It is evil not to thirst, when a cause of thirst is taken:* and since thirst diminished doth depend upon the same cause, from which want of Appetite is produced, and thirst abolished, is only in acute Diseases, we shall not speak here of them particularly. But we will only speak of thirst depraved, as being most usual: and this is to be divided two ways, as also hunger depraved. The one requiring divers kinds of drinks, the other great quantities and often. That which desireth filthy drink is to be referred to *Pica*, as when they desire Vinegar, Lemmons, and salt Water. It remains that we speak of thirst increased, which is an usual Symptom when the Appetite offends in the quantity of Liquor, and much drink is desired.

CAUSES. The immediate Cause is want of moist nourishment, and dryness of the stomach, and of other parts which make the stomach sensible of their wants.

This dryness and want of moisture useth to come from all such things which can consume the dewy moisture of the Stomach and the whole Body, and dry it up, and they are hot and dry. The dry do principally suck up the humor, and the hot things secondarily.

Also this Disease is either by Propriety or, by Sympathy. It is by Propriety, when the innate moisture of the stomach is altered and drawn forth by an unequal distemper, dry or hot, or both; sometimes by a simple distemper, but often by that distemper which is joyned with matter; as a salt, sharp or filthy humor fixed in the mouth of the stomach, or contained in its cavity. But that which is by Sympathy, comes by consent from the whole body, or some part whose Veins having lost their moisture, do suck from the stomach; as it is in Feavers, Inflammations of the Liver, Lungs, and other parts, as also in hot and dry distempers, especially of the Reins, as you may see in a *Diabetes*, or involuntary

voluntary pissing, which is called by the name of *Dipsacus*, by reason of the great thirst which accompanieth it.

The outward Causes are all such as extraordinarily heat or dry, as very hot and dry Air, long continuance in the Sun, or at the Fire, use of salt Meats, sharp and spiced, much use of old rich Wine, great watchings, too much evacuation, especially by purging.

The Hermetical Physicians say, That immoderate preternatural thirst comes from some thirsty Spirits which are bred of sulphurous excrements, which will not be satisfied with simple cooling and moistning, but with other Spirits like unto themselves; as we see in Feavers, that a strong thirst is little allayed with much Water, which with sharp Spirits of Vitriol, Sulphur, Salt, and the like, will be satisfied with a less quantity of Water.

DIAGNOSTICK. The knowledg is easie, for the Patients will complain. But the Causes are known by their proper Signs; as a hot and dry distemper cleaving to the Stomach and other parts; as also sharp, salt and bitter humors, some whereof are sometimes cast forth, or they have their tastes in their Mouths, if the humors are in the Stomach; but if thirst come by consent from other parts, the Signs of those Diseases will be manifest.

PROGNOSTICK. That thirst which comes from External Causes is safest, for that is quenched presently with drink. But that which comes from Internal Causes, is more or less dangerous, according to their Differences.

That thirst which comes with Feavers, and other Diseases easie to cure, endeth with them. But if it come from great and dangerous Diseases, it is very dangerous; as in a Dropsie in which thirst is not slack'd, but rather increased with drink.

CURE. The Cure of this Disease is often in Feavers, and Inflammations of some parts; which is described sufficiently in our Method of the Cure of Feavers, Sect. 2. Cap. 2.

But if thirst be contracted by immoderate Evacuations, causing a dry distemper of the Stomach, and other Causes, the Cure is by suppressing those Evacuations, and by restoring the empty parts with moist Medicines.

Therefore first, having ordered a restoring Diet, as in a Hectick Feaver, Consumption and Marasmus. Two Remedies prescribed by *Galen* are the best, 7. Meth. namely, Milk and Baths. Although *Hippocrates*, Aph. 64. Sect. 5. forbids Milk to thirsty people, that is to be understood of those who thirst from abundance of Choler and putrid humors, in whom Milk is easily putrefied; not of those who thirst from driness and consumption. We shewed the use of Milk in the Cure of a Consumption.

Let the Bath be made of the Decoction of *Althæa* Roots and Lilly Roots, with Mallows and Violet Leaves, and of a Decoction of the Head, Feet and Guts of Sheep, or melt with fresh Butter, or Oyl in warm Water, to be changed often.

Going out of the Bath, let the Loins, Back and Stomach be anointed with Oyl of Violets, the Marrow of a Veal Bone, and the like; with which let as much Breast or Goats Milk be mingled, as they will receive.

Let the Patient in the mean while use restoring Syrups and Lozenges, and other Remedies, which shall be laid down in the Cure of an Hectick Feaver.

This following Opiate is excellent:

Take of *Eryngus* Roots candied, and Conserve of Bugloss, of each two ounces: Conserve of Violets and Borrage flowers, of each one ounce; Confectio *Alkermes* half an ounce: Diapenedion newly prepared without the Species two drams: With Syrup of sweet Apples make an Opiate, of which let him take the quantity of a Chesnut at the time of thirst, drinking after it a little Borrage Water.

Chap. 5. Of the hurt Concoction of the Stomach.

DIFFERENCES.

THE Concoction of the Stomach called *Corylofis*, as of all other parts, is hurt three ways, either by diminishing, abolishing or depraving. This Concoction diminished is called *Bradupepsia*, the abolished *Apepsia*, the depraved is called *Dyspepsia*: all which differences are commended in this one word *Crudity*. Now this *Crudity* is twofold; either nidorous, stinking and acidous, or sharp. The nidorous *Crudity* is when the nourishment is turned into a stinking burnt Matter, as when the stink of Eggs, or rotten Fish, or fryed Oyl, is smelt by belching, which happens often in hot Cholerick Bodies. But a sharp four *Crudity* is, when Meat turns sour, and the belchings are sour, and this comes from a cold distemper. To these you may add a third difference of *Crudities*, when by reason of a weak heat the Matter is imperfectly concocted, and is turned into flegm without sourness.

CAUSES. The Causes that hinder Concoction in the Stomach, may be brought into three Heads; namely,

namely, fault in the Organ, Object, and things External and Internal.

The fault in the Organ comprehendeth all Diseases in the Stomach, whether they be Similar, or Organical, or Common, all which may overthrow its actions, but distemper is commonly the cause of hurt-Concoction; for since Concoction is made by a moderate heat according to Nature, if at any time it want its due moderation, the Concoction is hurt. So a cold distemper of the stomach which diminisheth the heat, if it be gentle, it only weakneth the Concoction, and make a Bradypepsia or slow Concoction. If the cold distemper be greater, it abolisheth Concoction, and makes Apepsia. But a hot distemper doth deprave Concoction, and make a Dysepsia, which is a difficult Concoction. These Distempers are sometimes simple, and in such who have naturally a weak stomach, and small Natural heat; or have a sharp and burning heat, but they are commonly with matter. Hence in Hypochondriack Melancholy, much flegm and fermentation of a black humor use to cause Crudities, Winds, Swellings, Rumbings, and four Belchings.

The fault of the Object, that is, the nourishment, which is the proper Object of the Stomach, comes many ways, when it offendeth in Substance, Quantity, Quality, Time or Order of being taken.

Nourishment is vicious in respect of its substance, when it is too hard and difficult to be concocted, as Deers flesh, Hares flesh, especially if old, and made hard with Salt or Smoak, Bread full of Bran, Mushrooms, Roots, Pulse, and the like, which are all called Dyspepta.

Meats offend in quantity, when too much is taken at once, and therefore cannot be overcome by the heat: hence come Crudities, which are most usual amongst them who surfeit themselves. If there be less eaten than is required, it may seem to be Crude, because too little Meat will be burnt and dried in a Cholerick Stomach.

Meats offend in quality which are too cold and moist, and windy, or they which are too hot, whereby the thinner part of the Chyle is burnt, and turned into nidorous vapors.

To this may be reduced the Art of Cookery, and Sawce-making; for the divers ways of roasting, boyling, and making of Sawce, do alter the disposition of Meat, by which means they become more easie or hard of Concoction.

The time and order of eating being preposterous, may also spoil the Concoction; as if any one should omit his usual time of eating, and fall to it at Midnight, or a little before he goes to sleep fill his Stomach; or if after taking of solid and astringent things, as Cheese, Pears, Quinces, and the like, they take liquid things which do soon corrupt.

Also external things may spoil the Concoction, if they be immoderate: so too cold Air by dulling the natural heat, if it be weak or too hot, by dissipating the heat may hinder Concoction; as also immoderate exercise, especially after Meat, by drawing the natural heat forth from the stomach to the external parts, and so dispersing it extraordinarily; as also by throwing the Chylus yet imperfect into the Guts. The stoppage of the Belly and other excrements, or an immoderate flux, great watchings, sleep in the day time, great passions of the mind, especially sadness, and deep study presently after meat, and the like, do not a little hinder the action of the Stomach.

Besides the Causes mentioned, the Hermeticks of late time mention one less usual, and not noted by the Ancients, which also is not plainly demonstrated by them; but it is confirmed by some conjectures, not to be contemned; of which we made mention in the explaining of the Causes of *Fames Canina*. First therefore they affirm, That the Natural Concoction of the stomach is not made by heat only; but that quick melting of solid Meats by which it is converted into Chylus, is from another cause; since experience teacheth, that Meat boyling in a Pot at a strong fire many days, will never be dissolved: and bones in a Dogs Stomach are quickly dissolved, and turned into Chylous Liquor; and in the bellies of Fishes which have no actual heat, all that is brought in is dissolved and concocted the same way. Therefore they lay down the principal cause of this dissolving to be a certain Spirit or sharp Liquor sent from the Spleen into the Stomach, which hath great power to dissolve. And they take this Opinion from *Galen*, by whom it is confirmed, that a Melancholick Humor sent from the Spleen into the Stomach, doth cause Appetite, and that either by astringing or wrinkling the inner Tunicle of the Stomach, or pulling of it by its sharpness, which may be opposed; for if it do it by astringing, then all astringent things would do the same; and if by pulling, sharp things rather than sour would provoke Appetite. Therefore they think it more profitable, that that humor should stir up Appetite by accident, by causing want of nourishment, by dissolving of that which comes in. And therefore they allow a more noble use of the Spleen than ever the Ancients thought of, namely, to be a chief Instrument to serve the Stomach in Concoction. This may be conjectured from Birds, which dissolve the hardest Seeds, & have a spleen round about the stomach or maw, that it may more powerfully inspire that dissolving Spirit, or communicate unto it sour Liquor. And *Helmont* from his own experience saith, that that sour Spirit is very strong in Birds; for he relates, that when he was a Boy and kept a Sparrow, he gave it his Tongue, which the Sparrow catching with his Bill, desired to swallow.

swallow; and that touching the Throat of the Sparrow with the tip of his tongue, he found it exceeding sharp. The dissolving Spirit inherent in the Gizzards of Birds is proved from Physical Practice, in which the Gizzards of Hens for to help Concoction are usually prescribed in digestive Powders, and it is credible that they produce that effect by helping the dissolution of the meat, and the same are prescribed in the Stone, and they do much dissolve them; and that is more manifestly declared in that from the Gizzards of Birds, there is a salt taken which is excellent to dissolve the stone; out of which salt, being in great plenty in their gizzards, Nature being wise and provident, knows how to draw a spirit in a living creature, by help whereof with the natural heat she may dissolve solid nourishment: and it is ordinarily seen, that there is a spirit made of dissolving salt, as of Vitriol, Nitre, Armoniack, and common Salt, which is more powerful to dissolve.

Therefore the Spirit or sharp Liquor which is sent from the Spleen into the Stomach while it is in its natural state makes a laudable concoction; but if it be changed it overthrows the actions of the stomach as aforesaid, from these Positions, That a Dog-Appetite was stirred up, when that Spirit or acid Liquor is too active and powerful to dissolve: So on the other side, if the dissolving power be too weak, or be defective, there followeth a diminished or abolished concoction. Hence *Helmont* saith, That the i. Aph. of *Hip. Sect. 6.* which is this; In long raging of the Guts, if sour belchings arise, which are not formerly, it is a good sign; is thus to be interpreted, because that sour belching signifieth that that fermentation which was lost by the disease begins to return.

Let us hold up this new Doctrine by our own Experiment; for in the year past, 1648, we had a great Flegmatick and Melancholick Flux for four Months, and were brought thereby to extream leanness, by reason all our nourishment turned into a Flegmatick and slimy substance, from the debility of the Stomach which could not well concoct the same, after many Medicines used all along that time, the chief part whereof profited little or nothing, at length by the often use of very sharp Vinegar in a few days we were perfectly cured of that violent disease; by the force of which Vinegar we may conjecture that the natural sourness which was almost lost was much restored; we used this vinegar at our meat with hard Eggs, which being cut in peices we dipped therein, and for some days we continued the use thereof in all our meats. And we manifestly perceived, that if the vinegar was not very sharp it did our stomach little good.

DIAGNOSTICK. The Knowledge or Diagnosis of this Disease, according to the differences of hurt concoction, is divers. And first, *Apepsia* and *Bradypepsia* are known by the same signs, only differing in degrees; and these signs are sour belchings, vomiting or purging forth of Food either not, or but half concocted, some causes of refrigeration went before, there is a weight, extension and Inflammation in the stomach, inconvenience by taking cold things; thin urin, waterish and pale; sometimes thick and red from that impure and filthy juyce which by reason of the imperfection of the first concoction could not be seperated from the Chylus, but being sent to the Reins with the serous humor, makes the urine foul, such as useth to be voided by melancholick and Scorbutick persons.

See the Explication of this Urine more at large in *Sennertus, lib. 3. pract. med. part. 8. Sect. 2. cap. 7.* but these shew Concoction depraved, or *Dyspepsia*, Nidorous stinking belchings, the like tast or stink in the mouth, sense of thirst and heat, inconvenience by hot things.

If the stomach is affected principally, there will be proper signs of its disease; but if by consent, this sympathy is to be found out from the proper signs of the part affected; but if the symptom depend upon the fault of external causes or of the object, it will appear by the relation of the Patient and those that stand by, from the present or foregoing Constitution of the same.

PROGNOSTICK. The Prognostick is thus made; The fault of Concoction which comes from external causes is easily helped, by taking away those causes, and by ordering a good diet.

Concoction hurt is more easily cured when it comes of humors which are brought from other parts into the Stomach, than when it is only from the Stomach: for if those humors are purged before they fasten any disease in the Stomach, concoction is restored.

The Abolished Concoction of the Stomach is worst of all, because the whole nourishment of the body is frustrated, from whence comes most deadly diseases, as *Lientery*, *Dropsie*, *Atrophy*, and the like.

The Concoction diminished brings its inconveniences, as *Cholick*, *Cachexy*, or evil Habit, and sometimes divers sorts of *Dropsies*.

The Concoction depraved is the cause of many Evils; of *Obstructions*, *Scabs*, *Feavers*, and the like

CURE. The Cure is wrought by taking away causes external, antecedent, and conjunct, which do cause, encrease and preserve this disease.

And first observe, if the humors be brought from other parts into the Stomach, and in this case they must first be evacuated and repelled, the disease of the part sending to those humors to be amended, and the stomach strengthened, the cures of the diseases of other parts must be taken from their proper Chapters; But the strengthening of the Stomach may be taken from the cure of the *Want of Appetite*.

But the Hurt which comes to the Concoction from the proper fault of the Stomach, that chiefly takes its beginning from cold or hot humors; and therefore requires the same Cure which was propounded for want of Appetite coming of the same Causes, which we will not repeat.

Lastly, If the proper cause of the Hermeticks afore-mentioned be worth observing, you must look it; first correcting the Evil state of the Liver, and then restoring the Spirits dissolving, with some acid substance; of which kind is Spirit of Sulphur, Vitriol, Salt, juyce of Lemons, Pomegranates, Oranges, and Vinegar.

Chap. 6. Of Singultus, or Hiccough.

Singultus or Hiccough, is a depraved motion of the Stomach, by which it desires to expel something that is hurtful.

It is distinguished from vomiting, because that which is so sent forth, is contained in the Cavity of the Stomach, and it is wholly turned to throw it out; But in *Singultus* the matter offending is fixed in the Tunics of the Stomach, therefore it doth contract it self, and shakes its fibres, or exclude it. And that we may comprehend loathing also in this definition, we say that the expulsive motion of the Stomach is three ways; For either Nature would sometimes rise to expel, and cannot; or it is not sufficiently raised to this motion, and then it is *Nausea* or loathing; sometimes it riseth and expelleth, and then it is Vomiting. Or lastly, it riseth to expel, and cannot, and that is *Singultus*.

This is a Convulsive motion, not a Convulsion, which is only in the Muscles, and parts given to voluntary motion.

CAUSES. The immediate causes of *Singultus* are propounded by *Hip. Aph. 39. Sect. 6.* that is, Emptiness and Repletion, as of a Convulsion. But *Galen* and *Avicen* add a third cause, namely, a provocation by sharp matter. Some labour to bring the matter provoking to a kind of repletion, that they may excuse *Hippocrates*. But when the matter is plain, we need not confound and darken the evidences of things for Authors words; for what is more clear, than that *Singultus* comes from the expulsive Faculty provoked? Therefore whatsoever can provoke is the immediate cause of *Singultus* or Hiccough. But humors and vapors offending either in quantity or quality may provoke the Stomach to expulsion, and so repletion and acrimony are two distinct causes. But it is not easie to shew how emptiness makes a *Singultus*: For since its Essence is in defect, none will say that Nature riseth to expel a defect; but rather will be moved to refresh and repair it, and so it doth rather move the Attractive than the Expulsive Faculty. But if *Singultus* follow great Evacuations, as in sharp Fevers, and malignant, and purging with Hellebore, it is not simply to be attributed to the Evacuation, but rather to a malignant quality in the Stomach, coming from the disease, or some Medicine taken.

The Matter causing *Singultus*, is either gathered in the Stomach, or sent from the Liver, Spleen, Guts or other parts, or from the whole body. So sharp nourishment, or sharp medicines, or sharp humors, or gnawing worms contained in the Stomach, cause a *Singultus* by propriety; but inflammation of the parts adjacent by water or vapors sent to the Stomach, make it by consent: as also because the Tumor, especially when the Liver is inflamed, doth compress the Stomach, by which the expulsive Faculty is continually provoked. Finally, Humors may be brought from the whole body, or sharp humors to the Stomach in the diseases of the whole body, as appears in sharp and malignant Fevers.

DIAGNOSTICK. The Diagnosis or knowledge of this disease is manifest of it self. But the signs of the cause are thus to be distinguished, so that if it be by propriety, the disease is more lasting, and there will appear signs of the humors contained in the Stomach, and the disease is asswaged by vomit. The Humor contained in the Stomach is known by vomit, belching, taste in the mouth, and by other signs. And finally, if it come from a disease in any other part, you may take the signs thereof from their proper Chapters.

PROGNOSTICK. As to the Prognostick; *Singultus* that comes from any principal cause, as Meat, Drink or Cold, is not dangerous; as also that which goes before a Crisis by Vomit, and then other signs must be healthful.

If any have the Hiccough in a great Fever, the disease is very dangerous, *Hip. in Coacis*. For it comes from sharp humors, and malignant, which pull the Tunicle of the Stomach inwardly, and force its expulsive Faculty. And *Vallesius* saith, That he never knew any extenuated persons taken with a hot and malignant Fever, who had a *Singultus*, to escape, So it is in *Hippoc. 3. Epid. Sect. 2. Aeg. 12.* A Woman living in the Market, had many Hiccoughs upon the twelfth day, and died the Fourteenth day of her sickness. Also *Platerus* observed, that a *Singultus* coming upon the burning Fevers, and continuing, is for the most part a fore-runner of death, and the same is deadly in a *Dysentery* or bloody Flux.

After Vomiting, *Singultus* and redness of the Eyes is evil, *Hip. Aph. 3. Sect. 7.* These two signs coming after vomiting in acute diseases and continuing any time, therefore are said to be deadly, because they declare an inflammation of the Brain or Stomach; which inflammation is not only the cause of Hiccoughs and redness of Eyes, but also of vomiting. For if Vomiting come from sharp Humors that gnaw the mouth of the Stomach, and its Tunicles, when those humors are thrown out by vomit, the *Singultus* & Vomiting would cease, nor would any sharp vapour be sent to the eyes, which should make them red. But when vomiting doth not only not profit, but also brings after it Hiccoughs and redness of the Eyes; it is most certain that these three, namely, Vomiting, Hiccoughs and redness of the Eyes, do come from the Inflammation of the Brain or Stomach: for the Brain being inflamed, doth through abundance of blood send it to the eyes, & into their extream Tunicles, whence comes redness; to which also the Stomach consenting by the nerves of the sixth Conjugation, is easily from the inflammation of the Brain brought to Vomit and Hiccough. Also the stomach inflamed by a concourse of hot blood to the Eyes by reason of the great consent between those parts, brings vomit, Hiccoughs and redness of the Eyes, which the beginnings of Suffocations do demonstrate, and the appearance of things before the eyes which are in the stomach disordered: whence *Hippocrates* in his Book *de locis in homine*, affirms, That the Eyes are chiefly hurt by vomiting.

Singultus from Inflammation of the Liver is hurtful, *Hip. Aph. 17. Sect. 7.* which comes then, as *Galen* shews in his comment upon that Aphorism, when the Inflammation is greater and worse, for then it is so great in the Liver that it lieth upon the stomach, and brings the *Singultus*: nay, sometimes by conflux of Matter, there is sometimes an Inflammation or *Erysipelas* in the Stomach: or else there comes gnawing from the same being sucked into the Tunicles of the Stomach.

CURE. The Cure of this Disease is directed to the Causes, which as I said, do either produce it by way of Sympathy or Propriety. The Causes which produce it by Sympathy, are the diseases of other parts, which being cured, this is cured, although these Medicines are to be administered then, which are good to allay the Symptom, which shall be afterwards declared.

This Disease by Propriety comes of Flegm, Wind, Choler, or some sharp or malignant Humor.

That which comes from Flegm in the Tunicles of the Stomach is cured by Medicines which cut the humor, cleanse and purge it, and by strengtheners of the part, such as were prescribed for the cure of Want of Appetite coming of a cold cause. To which we may add these following, as more proper to this Disease.

Take of Castor one dram, the Juice of Mints four ounces; Mix them, let the Patient take one spoonful or two every fit: and you may anoint the Stomach with the same Medicine warm twice or thrice in a day.

He may take Vinegar of Squills often to cut and dissolve the Matter contained in the Tunicles of the Stomach; or instead thereof, Oxymel of Squills.

Cloves held often in the Mouth do not a little profit.

Also the *Elixir Proprietatis* of *Crollius*, is very profitable:

Take of Dill seeds two or three drams; boyl them a little in eight ounces of the best Wine: of which let the Patient take one ounce first and last. Let the same seed be put into a cloth, and often smelled to.

When the Disease is violent, these Pills following are very good:

Take of Castor and Myrrh, of each three drams: Sal gem, half an ounce, *Diagridium* and Mastich, of each one dram: Agarick newly trochiscated three drams: Aloes as much as all the rest: Make them with Juice of Mints into a Mass, of one dram whereof make six Pills gilded. Let him take two or three in the morning twice in a week, two hours before Meat.

Plainer Pills, and almost as good, may be made of Hiera with Oxymel, of which you may give a dram.

In the days between the taking of Pills, give this Powder:

Take of Dill seeds half an ounce, Zedoary, Lignum Aloes, Nutmegs, Cloves, and Powder of Diambra, of each one dram. Let him take two scruples in a morning with a little sweet Wine, or put to them three ounces of common Salt, and let him eat it with all his Viſtuals.

Apply this Cataplasm following to the Stomach:

Take of Roots of *Aristolochium*, or long-Birth-wort, Flower-de-luce, Bay-berries, dried Leaves of Rue and Mints, of each three drams; Castor and Myrrh, of each two drams; Cloves and *Hypocistis*, of each one dram. Make a Cataplasm with Honey of Rosemary.

At length, when the disease is stubborn, you must use the Decoction of Guajacum and Baths of Brimstone as the best Medicines.

That which comes from Wind is cured by the same Medicines, adding thereto things to expel wind.

Apply also Cupping-glasses to the Region of the Stomach, which miraculously do presently abate, and take away the windy diseases of the stomach.

That which comes from a sharp cholerick Humor, besides those Remedies which were prescribed in Want of Appetite coming of a cold distemper, most proper also to this disease, must be cured by Phlebotomy (if there be Plethory or fulness) by vomiting and gentle purging every third day, thus made :

Take of the Powder of Rhubarb, sprinkled with Endive Water, half an ounce : the pulp of Tamarinds two drams, the seeds of Endive and Purslane, and of Spodium, of each one dram : yellow Saunders and Diagridium, of each half a dram ; with Syrup of Lemmons make a Mass of Pills of half a dram ; whereof make four or five Pills to be given in the morning as aforesaid.

Upon other days let him take Conserve of Roses and Borrage, mixed with a little Triasantalon, or the Opiate mentioned in the Cure of Want of Appetite.

Emulsions often used, made of the cold Seeds, do powerfully assuage the sharpness of the humor, or in a disease not very hot, the Milk of sweet Almonds.

Syrup of Apples, with Syrup of Quinces is to be given in a Spoon.

He must take Broth often.

And must drink cold or warm Water or Ptisans often.

The Oyl of sweet Almonds doth assuage the sharpness of the Humors.

Let the Stomach be fomented with a Sponge dipt in Rose water.

Take of the Cerat of Saunders and Oyntment of Roses, of each one ounce ; Mastich half an ounce, Citron peels and pulp of Quinces, of each one dram : with Juicye of Housleek and a little Turpentine. Make two Emplaisters, of which lay one to the fore-part, another to the hinder-part of the Stomach.

Anoint the Region of the Liver with Cooling Oyntments, because the Humors use to flow from thence to the Stomach.

If you suspect any infection, you must give Treacle and other Antidotes, and anoynt the Stomach with the Oyl of Scorpions according to *Matthiolus*.

These Medicines following are good against the Hiccough of what cause soever.

First, Expel the Humor offending by vomit, if the Patient can well endure it ; and repeat it, if the Disease abate ; and give stronger, if necessity requires.

As *Platerus* sheweth in his *Practice*, of which he gives an Example in his *Observations*, in these words ; *A Chirurgion being sick began to Hiccough day and night, so that he could neither sleep, speak well, or take meat : at last being thus weak and nothing profiting him, when he was in an agony, we gave him not without fear, but at his own intreaty, a strong Chymical Vomit at hand, by which he vomited abundance of Choler green and black, and so was cured.*

If the Patient abhor Vomits, purge him.

But prepare the Humors first, or before you repeat it with cutting and cleansing means ; after use these following.

Apply Cupping-glasses to the Back against the Stomach, or before.

Bind the Stomach that it may not be dilated.

Use Ligatures to the remote parts.

Take Annis-seeds, for they say that doth specifically cure.

And give often Clysters to draw the humors from the Stomach.

Apply young Creatures to the Stomach.

And take Vinegar of Squills in a Spoon.

Neefing doth shake off the Matter which is compacted in the Tunicles of the Stomach ; as *Chrysimachus* the Physician in *Plato* cured *Aristophanes* by Neefing, when he could not be cured by holding his breath, and gargling of cold Water.

Galen 8. *de comp. med. sec. loc.* mentions the Medicine of *Asclepiades*, of which he examineth every Simple, and approveth them as if it had all faculties fit for this intention ; namely, To discuss and evacuate the matter hurtful by stool and urine, to strengthen the Stomach : And lastly, To mitigate sharpness.

The Composition is thus :

Take of Costus or Galangal, Saffron, Spicknard, Roses, Mastich, of each four scruples : Asarabacca and Aloes, of each two scruples : Opium one scruple, with the Juicye of Fleabane : make them into little Balls or Cakes, and let him take one of a scruple in weight every morning.

In imitation of that you may quicklier prepare Pills for one Dose, of one dram of Aloes, two or three grains of Laudanum : And if you will purge more, give three or four grains of Diagridium.

Duretus testifieth what excellent force Aloes hath in this Disease, in these words, *Many when they have been almost dead with the Hiccough, have been cured with Purging five days together with Hiera, after they have voided black glutinous humors.*

Platerus reports in his Observations, that he cured a Boy of ten years old, that was troubled night and day for eight days together with the Hiccough, with the Water of green Nuts, distilled with Rhadish first macerated in Vinegar, which he gave as a Vomit; and though he vomited not, yet he was eased; and taking a draught thereof at night, was presently cured.

Forestus reports, That he cured one with one draught of the Decoction of Dill-seeds, Carva, Purflane, and white Poppy-seeds, made in small Ale.

Claudianus doth highly commend *Diaphœnicum* with *Philonium Romanum*, when the Cause and the Symptom are very violent.

Lastly, Narcoticks only do alone cure this when all other things fail, by stupefying of the sense of the part which is too exquisite.

Chap. 8. Of Nausea, and Vomiting.

Nausea and Vomiting differ only in degrees, and both are the Motion of the Stomach, by which it either expelleth or labours to expel things contained therein; therefore Nausea is a desire to vomit with trouble, and only sending and pewking forth a thin waterish humor by Salivation: whatsoever troubles the stomach either in quantity or quality useth to stir that up, when it cannot be avoided by reason of the weakness of the stomach, or the strength of the upper Orifice, or thickness of the Matter or sliminess.

But Vomiting, which is called in Greek *Emotis*, or *Emesia*, is a depraved motion of the Stomach, which shaketh it, by which the Expulsive Faculty is stirred up by contraction of the Fibres of the lower part, and loosning those in the superior, doth sensibly with a violent motion throw upward the Matter contained therein, which is troublesome unto it; it is called a depraved Motion, both in respect of the Object troubling it, as also in respect of the Motion it self, which is from the bottom of the stomach to the mouth of it, turning it, when the natural motion of the stomach is compulsive towards the Guts and *Pylorus*.

DIFFERENCES. The Differences of Vomitings are taken from their Causes, which are either External or Internal; therefore it is divided first into Natural and Artificial; the Natural again is either without a Disease, or in the Disease; from whence ariseth a three-fold Difference, one is called Periodical, another Critical, and another Symptomatical.

Periodical is that which without a Disease is used for preservation often, from whence we read in *Hippocrates*, That the Ancients did vomit twice every month, either at distance, or together.

And there are many in our times, who use either every Month, or Week, or Day to Vomit Choler or Flegm; by which they are preserved from many Diseases: and this is not properly a Symptom, because there is no disease present; but it is rather to be termed a Motion of Nature.

Critical Vomiting often happens in Diseases, and by that the Matter of the Disease, if preparation be first made, is wholsomly evacuated; either all, by which it is cured; or in part, by which it is diminished.

Symptomatical Vomiting comes from Nature provoked and weakned, and without ease to the Patient, because it is not enough, or it is nourished continually with the Matter that maketh the Disease.

Other Differences of Vomitings are taken from the things vomited, for they are either nourishable or excrementitious, the first is of Meat, Chylus, or pure or mixed Blood; the latter is of Flegm, Choler, Melancholy, Water, Matter, and the like.

CAUSES. Artificial Vomiting generally is whatsoever is from an External Cause; The External Causes are chiefly Stroaks, Falls, Compression of the lower Belly, Southerly Weather, or infectious Ayr, Poysonous Breath, Stinking Smells, violent Exercise, Riding, Sayling at Sea, especially in a Southerly Wind, beholding or conceiving of some filthy thing. And the like External Causes which provoke Nature, or move the Humors; but especially things taken in have great force, not only Vomits called *Emetica*, and Poysons which we distaste; but also nourishments either hurtful in their Nature, or hated peculiarly of some; as in *Hippocrates*, who speaks of one who with eating of Mushrooms or Toadstools, died vomiting. The same hapned to a Courtier of *Antoninus* the Emperour, who eating much Mouldy Cheefe died vomiting. The Quality of Food will do the same if it be Fat or Oily, as also a preposterous order in eating, when moistning and loosning things

things are eat after astringents, and also too much food taken, though never so good, as appears in Gluttons; for then Nature being over-charged, desires to throw out what she cannot concoct, to which she is also stirred up by the evil quality which is brought to those Meats by corruption or evil concoction.

The Internal Causes are either Antecedent or Conjunct.

The Antecedent Causes either come from the whole Body, or from some proper peculiar part into the Stomach. They come from the whole Body in a Plethory, evil habit or Cachexy, Feavers, and other Diseases of the whole Body. The humors are often derived from some peculiar part into the Stomach in the Inflammation of the Liver, Spleen, or other Obstructions of the Mesentery, from the Terms stopped, or Hemorrhoids, from a Catarrh, or the like. To this you may add the evil Conformation of the *Porus Cholidochus* when it is not placed in the *Duodenum*, but into the Stomach, whence they are called *Pichrocholi Ana*, who are often troubled with Cholerick Vomits, by reason of this evil Conformation. Also this vomiting cometh by the Peristaltick Motion of the Guts, when they are stopped in the Cholick, and the humors cannot well get forth, but come upwards; also Worms coming up into the Stomach from the Guts, & pulling the inward Tunicle thereof, do cause vomiting. And lastly, An Imposthume broken in the Spleen, Mesentery, and other parts of the *Abdomen*, useth to cause a vomiting of Matter.

The Conjunct Causes of Vomiting are them before mentioned, when they come to the Stomach; for while they were in other, they were Antecedent Causes. These are especially divers Humors, some bred in the Stomach, especially Flegm, of which there is often much in the Stomach, by Crudities, and want of concoction when the stomach is weak and turns it into Flegm. So also is there sometimes green Choler in the Stomach bred of corrupt humors, as *Galen* teacheth, *Com. in 2. Progn.* and this clearly appears in sucking Infants, who through corruption of Milk in their stomach use to avoid green stools like Leeks or Verdegreefe.

This green Choler which comes from corrupt nourishment in the stomach, is not the same with that which cometh from yellow Choler by Adustion and Torrefaction.

SIGNS. The Signs of Vomiting are manifest; But the Causes as they are divers, so they have divers Signs.

First then, If Vomiting come from a fault in the Stomach, there are signs of that part being affected, as loathing of Meat, heaviness, extension, swelling in the Region of the Stomach, slow and hard Concoction, sour and stinking belchings, and other signs that shew the distemper of that part. So if it come from a common and organical disease in the stomach, as a Tumor or Ulcer, the signs of these diseases will discover themselves. But if vomiting come by sympathy from the whole body or other parts, there will appear some disease of the whole body or some part.

The whole body is affected in Feavers, evil Habit, Jaundies, Atrophy or want of nourishment. But the principal parts from which the humors are sent more frequently to the stomach, are the Brain, Liver, Guts, and Womb.

If the humors flow from the Brain to the Stomach, there will appear signs of distillations, frothy and flegmy vomiting, and a great loathing at Meat time.

If the Humor come from the Liver, it is commonly Choler: and vomiting before Meat, is worse than after: and there appears some disease in the Liver, as pain or tumor.

If the Matter come from the Guts, either there will be Cholick or Iliack Passion, or the signs of Worms.

Lastly, If it come from the Womb, there is conception, suppression of Terms, or other Symptoms.

We may also know by some signs whether the humor be contained in the cavity of the stomach, or stick to the Tunics thereof. For if it be in the cavity it is easily cast forth, and there is stretching in the stomach, and trouble after Meat, which will not cease till the humors are sent out by vomit, which are for the most part thrown out alone, and the Meat retained. But if the humors stick to the Tunics, vomiting is chiefly after Meat, and the Meat is cast forth without the humors, but when there is no Meat, there is a loathing, and that which is cast forth, is thick and slimy, and with great straining.

The external Causes are known by relation of the Patient, as if he hath eat or drunk too much, or received a stroke, or eat any evil thing.

The signs of vomiting to come are shewed by *Galen, lib. 3. de cris. cap. ult.* as head-ach, dark giddiness, trembling of the lower Lip, gnawing at the Mouth of the Stomach, often and much spitting.

PROGNOSTICK. You must take the Prognostick thus:

Vomiting from Choler and Flegm, which is neither very thick, nor very much, and which hath both those Humors exquisitely mingled, is good. For it is commendable in substance, quantity and quality. For of all excrementitious Humors, Flegm and Choler are the mildest: if then they be

be vomited well mixed, and in a moderate quantity and consistence, it hath all the Laudaable conditions.

Cholerick and Flegmatick Vomiting on a critical day are very good: For not only mixed are good, but vomiting of one single, if it cause the disease. So in Cholerick Feavers, when Choler comes forth critically, or Flegm in Flegmatick Feavers, the disease is at an end, or at least there is great hopes of recovery.

A vomiting naturally after a long Flux of the Belly cures the disease, *Aph. 15. Sect. 6.* for there is a revulsion of the Matter to the contrary part. And this shews that Nature is refreshed, and gets strength; For as the Physitian ought to labour for the retraction of those things that flow to any part. So Nature, when she begins to prevail, makes a repulsion to the humor, which flows to the part affected, that the part may be refreshed and strengthened.

Little and violent vomiting in a sharp Feaver is evil; for it is not good to void sparingly in a Crisis; for it signifieth one of these two things, either abundance of Matter which Nature cannot bear, but must send some of it forth; or the weakness of Nature, which striveth in vain to send forth that which is superfluous.

Vomiting of divers colours are evil, it signifieth divers humors lurking in the body, and therefore Nature will be more put to it with divers enemies; for if it be troublesome to Nature to contend with divers nourishments, how much more dangerous is it to strive to concoct and tame divers preternatural humors, especially in acute diseases, in which there is but short time to fight, which should be long, that there might be more hope of Nature being a Conqueror.

Green vomiting like Leeks, Verdegreefe, as also blew, black or stinking, is deadly; For it signifieth that there is abundance of Choler of those colours. And all these kinds of Choler use to produce malignant and deadly diseases. And if there be a stink, it shews a great corruption of humors, with which Nature cannot long consist.

In acute Feavers, vomiting without mixture of humors is evil, according to *Hip. 1. Prorrh.* For a pure Humor is not only crude, but incapable of concoction, because it excludeth not only the act, but the power of concoction. *Hippocrates* calls every humor that is without mixture, and every excrement that is hot and crude, *Acrition*, because it is bred either by the defect of some part, or by reason of the watery serous matter is exhausted by the heat of a Feaver. Therefore in sharp Feavers it shews that there is a great inward Inflammation, and for the most part such as Nature cannot conquer.

CURE. As for the Cure; if Vomiting come from a disease in some other part, it needs no other Medicines than those which are agreeable to the disease from whence it comes.

But if it come from Cholerick, Flegmatick or Melancholick humors which stimulate and provoke the Stomach, either by their quantity or quality, you must throw out those humors by Vomitive Medicines.

But if they be thick and glutinous, or clammy, they are to be cut and cleansed, as we shewed in the Cure of *Want of Appetite*.

The best Vomit in this case, is that which is indifferent gentle, and not too weak, as warm Oyl; nor must you give strong ones made of Antimony, which draw violently from remote parts. But such as do cleanse and dissolve the glutinous humors, as *Gylla Theophrasti*, or white Vitriol prepared; but Salt of Vitriol brought to a high redness by Calcination, is the stronger.

If Vomits are unpleasant, you must take away the matter with often Clysters and gentle Purgations with Rhubarb in them, which astringeth and strengtheneth afterwards.

In Cholerick vomiting, these Pills following may be prescribed;

Take of *Aloes* washed with *Rose Water* three drams, the powder of *Rhubarb* sprinkled with *Borage Water* one dram; *Mastich*, red *Sanders*, and *Coral* prepared, of each one scruple; With syrup of *Roses* Solutive make a mass of Pills, of which take half a dram, or a dram every other day till the Vomiting be ceased. Or,

Take of *Rhubarb* powdered one dram; yellow *Myrobalans* one scruple; *Spodium*, or burnt *Ivory* and *Harts-horn* shaved, of each six grains. Make a powder, and give it twice in a Week, in a little Broth.

Or make a Bolus of *Hiera Picra*, or three drams of *Diacatholicon*, with one dram of powdered Rhubarb.

In a most violent vomiting give three Grains of Laudanum, with two scruples and an half of *Cochiæ* Pills the less, the vomit will be stayed, and five hours after they will work downwards. There is a good quantity of Purging Pills in this Receipt, because *Laudanum* doth astringe, and therefore it must be given with Medicines made of *Diagridium* and *Coloquintida*. And if the Medicine do not come away, you must give a sharp Clyster.

After

After sufficient Purging, you must strengthen the Stomach with Syrup of Quinces, four Pomegranates, old Conserve of Roses, or Comfrey Roots, Conserve of Quinces; or this following Julep, if it be very Cholerick and vehement:

Take of the juyce of sower Pomegranates six ounces: the juyce of Mints clarified two ounces, Sorrel Water one pint, white Sugar half a pound, make a Julep, in which while it is clarifying boyl gently in a clout of yellow Saunders, red Roses and Spodium, of each one dram: Let him take four ounces first and last.

Take of Terra Sigillata, or sealed Earth, Bole-Armenick, red Coral, prepared Pearl, Purslain, and Sorrel seed, of each one dram: shavings of Harts-horn, and of dried Mints, of each one scruple; red Roses half a pugil; Make a Powder to be taken in Broth, or the like: or in a spoonful of Chalibiate Water. Or,

Make Tablets thereof with Sugar dissolved in Plantane Water, or an Opiate with Syrup of Quinces, Conserve of Roses, or Comfrey Roots.

Some few grains of the best Mastich, taken in the Morning is good to stay Vomiting.

Three Grains also of Balsom of Peru taken in a rear Egg, or in Sugar like a pill, do it better.

Also a Decoction of Beans or Pease, after the first water is cast away, with a little Vinegar, is much commended.

And the crude Juyce of Quinces, taken two or three spoonfuls at a time, doth Wonders.

Camphire often smelt to, or taken with a little Rose water, and a little powder of *Diamoscum* is good for the same.

The Spirit of Vitriol mixed with Plantane or Spring Water, to make it sharp, doth also powerfully stay Vomiting.

If it be very violent, make the water sharper with Spirit of Vitriol; or given in Sack or rich Wine; if you want spirit of Vitriol, use the strongest Vinegar without mixture, one spoonful or two at a time.

One scruple of Salt of Wormwood, mixed with a spoonful of the Juyce of Lemmons, is a most excellent Medicine; especially in those Vomiting which happen in malignant Feavers.

If the Patient grow very weak with vomiting, give him Laudanum with Conserve of Quinces, or syrup of dried Roses; and then apply a Cupping-glass to the Stomach, and a Cataplasm of Leven, Powder of Wormwood, Orange Peels, made up with juyce of Mints.

Apply also outwardly a Fomentation to the Region of the Stomach, a new sponge dipt in Rose water and Rose Vinegar; or let the Sponge boyl in strong Vinegar, and apply it hot to the Stomach.

Or make a Fomentation of the Decoction of the Roots of Snake-weed, Plantane-leaves, Purslain, Mints, Bramble tops, and Willow-tops, and then anoint it with this Oyntment;

Take of *Acacia*, *Hypocistis*, Grains of *Sumach* and *Myrtle*, of each two drams; Mastich and Grains of *Kermes*, of each one dram; Oyl of *Myrtles* two ounces, Wax as much as is sufficient; make an Ointment. Or apply this following Cataplasm:

Take of Quinces boyled in Rose-water and Vinegar, or Marmalade thereof well beaten, three ounces: the powder of Mastich, Grains of *Kermes*, *Myrtle* Berries and Plantane seed, of each two drams. With the Juyce of Mints or Quinces, or Syrup of Wormwood, make a Cataplasm.

Or steep a Crust of Bread in Rose-Vinegar, and sprinkle it with this Powder following.

Take of red Roses and Pomegranate flowers, and Coriander seeds prepared, of each one dram and an half; Mastich, red Coral, Sorrel seed, Spodium, of each half a dram; yellow Sanders one scruple: mix them into a Powder.

Or, Apply this following Emplaster;

Take of Mastich Plaister one ounce, the powder of Myrtles, and Bistort-Roots, of each half a dram; with the Oyl of Mastich, make an Emplaster in the form of a Buckler.

If the Vomiting be very violent, and bring a Feaver Symptomatical, and the Body very full; it is good sometimes to let blood to prevent Inflammation which may be in the internal parts by reason of the violent straining; and this must be done warily, and but a little, lest the strength be abated.

Moreover, It is good to apply Cupping-Glasses to the Back and Navel, and to rub and bind the extreame parts.

You may bind about the Neck Linnen Clothes dipt in Oxycrate to repel the humors; putting of the hands into cold Water, doth stay all kinds of vomiting.

And lastly, When other things avail not, use Narcoticks which do very quickly stop all Evacuations.

In a Flegmatick vomiting (if it will not be staid with the aforesaid Vomits) give Pills of Hiera, with Rhubarb and Agarick, or other fit Purges.

Then come to strengtheners for the Stomach, such as were prescribed for the cure of *Want of Appetite*: To which add this following;

Take of *Conserve of Roses and Comfry Roots*, of each one ounce; *Confection of Hyacinth* three drams; the Powder of *Diambra and Aromaticum Rosatum*, of each half a dram; *Troches of Spodinum, Terra Sigillata, and Grana Kermes*, of each one scruple; With Syrup of *Quinces* make an Opiate.

The Spirit of Vitriol with Wormwood Water, or Juyce of Mints, doth mightily stay Vomiting, and strengthen the Stomach.

Or one or two spoonfuls of *Aqua Imperialis* given after vomiting, if the Stomach be very cold.

Apply these things following outwardly;

Take of Wormwood, Mints and Balm, of each three handfuls; boyl them in a sufficient quantity of Vinegar and Wine, to the consumption of the third part: make a Fomentation for the Stomach.

After apply the Plaster afore-mentioned, or the Cataplasm of Quinces, using the Powder of Nutmegs and Cloves, instead of Myrtles and Plantane. Or,

Take of Wormwood and green Mints, of each one pound; a Toast dipt in Rose-water weighing half a pound; the pulp of Quinces, or Marmalad of the same, two ounces; Mastich half an ounce, Mace and Nutmegs, of each two drams; beat them all well together with Oyl of Quinces, and make an Emplaster.

Or make a Cataplasm of Quinces boyled in strong Vinegar, and then beaten with a little Mustard-seed, and Powder of Cloves.

Or- Apply a Toast dipped in strong Wine and Juyce of Mints, and sprinkled with powder of Nutmeg, Cloves, Frankincense, Mastich, and Grains of Kermes.

Villanovanus much commends sharp Leven, which he applieth to the stomach twice or thrice, being steeped in strong Vinegar and Juyce of Mints: this doth most certainly stop Vomiting after convenient Evacuations and Revulsions.

In a long Vomiting where the Stomach is very weak, you must use strong Astringents made thus:

Take of the Roots of *Snakeweed and Tormentil*, *Pomegranate peels and flowers*, and *Hypocistis*, of each two drams; *Leaves of Mints*, and dried *Wormwood*, of each half an handful; *Sumach and Myrtle berries*, of each one dram; red *Roses* one pugil; *Cinnamon, Cloves and Mastich*, of each half an ounce; green *Galls*, and *Cypress Nuts*, of each two drams: boyl them in Iron Water and red Wine, in which dissolve a little Musk, for sweet things do much assuage Vomiting, of which let the Patient take two ounces every morning, and foment his stomach with the same.

Alter the Fomentation apply some Plaster or Cataplasm, made as aforesaid.

CHAP. VIII. Of Vomiting Blood.

THIS Disease is a casting forth of Blood from the Stomach by the Mouth; and as all other bleeding, it comes from the Veins either by *Anastomosis*, or opening of them by *Diapedesis*, or Rarification, by *Rixis* breaking, or by *Diabrosis* corroding, which diseases of the Veins were shewed in the Cure of Spitting of Blood, called *Hemoptysis*.

CAUSES. The Causes also are the same.

And first the conjunct Cause; Excess of Blood in Quantity or Quality.

Blood offending in Quantity will break or open the mouths of the Veins, and so come *Rixis* or *Anastomosis*, which happeneth in full bodies.

If it offend in Quality, as when it is too hot or thin, it may cause an *Anastomosis*, because heat doth open the Orifices, and thinness makes it flow easily through: The same Qualities may cause a *Diapedesis*; for heat doth make thin the Tunics of the Vessels, and thinness causeth the blood to pass through their Pores.

Lastly, Sharpness gnaweth and Ulcerateth the Tunics of the Veins, and so produceth a *Diabrosis*.

The Antecedent Causes are the same with the Conjunct, but they differ in place; for when blood offending either in quantity or quality, doth immediately open the Veins; it is called a Conjunct Cause; and the same being contained in the Veins, is called an Antecedent Cause.

The parts sending, of which the chief are, the Head, Liver, Spleen, and Womb, are antecedent Causes.

Oftentimes blood is carried from the Head to the Stomach by the Palate and Gullet, or *Oesophagus*: and also a violent Catarrh of sharp and salt Flegm doth corrode the Stomach, and open the Veins thereof.

It is carried from the Liver and Spleen by the veins that go to the Stomach from the Womb, when blood by the stoppage of the Terms, runs back and opens the veins of the Stomach, so that some Women have had their Terms by vomiting blood constantly at the time.

Vomiting of blood comes oftner from the Liver and Spleen, than from other parts, and from the Spleen than the Liver, because it doth more consent with the stomach. For it is evident by Anatomy, that the great branch of the Gate-Vein or *Porta* goeth to the Spleen, from which many Veins are sent to the stomach both above and below; and these are so great, that being distended with wind or blood, they are as thick as the middle finger: this we have observed in Dissection. Moreover, the *Vas breve* being wide, as in a natural state, it doth continually send Melancholy into the stomach; so being in a Preternatural state, it may send great plenty of blood. But observe here, that in this case, that blood is voided by stool as well as vomit, both because a part thereof which went to the Stomach is sent downwards, and also because the Meseraick veins are open, and send blood into the Guts, which by its long passage through the Guts groweth black, and comes forth like Tarr.

The external causes are, all things that can wound or bruise, as also great heat which causeth boiling of the blood; hence it is that young men to the age of thirty five, are very subject to vomit blood, and other bleeding, as also great cold by too much striction may endanger to break the Veins; the same doth unseasonable Motion and Labour, unusual Exercise, great hollowing, and the like, which move the blood violently in the veins.

And finally, All the Causes of Blood-spitting aforementioned. For blood being violently moved either in the Veins or Arteries, whether from an external or internal cause, goes soonest to that part which is weakest, and most fit to receive it; and therefore if the Stomach or the Veins going thither are so disposed, there will be vomiting of blood rather than any other way of bleeding.

DIAGNOSTICK. The Diagnostick of this disease lieth chiefly in the discovery of the part from which the blood comes.

If from the Stomach, the situation of the part, and the constant pain and heaviness thereof will demonstrate, and there is less blood, for the veins of the stomach are small, and it comes with loathing, and there is a biting when they swallow, as also sometimes it comes forth mixed with meat, flegm or Choler.

If it come from the Head, there will be tickling about the Jaws and Palate; and some blood will be blown out of the Nose with Snot; there went before it some Head-ach or heaviness, which after bleeding ceaseth.

If from the Liver or Spleen there is more plenty of blood, and sometimes a Tumor or dolor in the part. From the Liver the blood is red and frothy, from the Spleen it is thick and black. Also blood from the Liver goes most downwards, because it commonly goes from thence to the Guts through the Meseraick, and must ascend from them into the stomach to cause vomiting, but it doth easier descend. Contrarily, that which comes from the Spleen is rather by Vomit, because the Veins from the Spleen to the stomach are shorter and narrower.

Lastly, If from the suppression of the Terms, you may know it from the Woman, and it will come at those times, which will be more probable, if there be no disease in any other part.

PROGNOSTICK. As for the Prognostick: Vomiting of blood, of what cause soever, is dangerous: for it either threatneth death suddenly: or if it stay in the stomach and putrefie, it breeds faintings, swoonings and suffocations.

Vomiting of blood from suppression of the Terms, is less dangerous than that from the Liver or Spleen: for when they are brought down it is usually cured, as *Hippocrates* taught, *Aph. 34. Sect. 5.* in these words: *When a Woman vomiteth blood, if her Courses break down, she is cured.* And in this case only, the opening of the inferiour Veins doth provoke the Terms, especially if she take something besides for that purpose.

They who after vomiting of blood fall into the Dropsie called *Ascites*, do die thereof. *Dodoneus* doth testify that he never knew any that escaped: And Experience teacheth, That a Dropsie from any kind of bleeding is deadly: for it comes from a great dissipation of Natural heat, which cannot be repaired.

CURE. For the Cure of this disease, use Medicines which reveal the blood from the Stomach, and correct its distempers and open the veins with astringents and glutinatives. To which add those things which concern the part chiefly affected, from whence the blood is sent into the stomach according to the divers Nature, and Disease of the part.

And because Diet is of chiefest concernment in this disease, let us shew some Rules thereof.

Let

Let his Nourishment be commonly Astringent and Emplastick, and cold both actually and potentially, as Barley, Almonds, Rice, Panadoes, Jellies, and especially Starch made without Chalk, and boiled in Milk, which is good also in spitting of Blood: to all these you may add some Pomegranates or Vinegar of Roses. Also hard Eggs steeped in Vinegar are good; Bread-crumbs steeped in cold water and Chicken Broth, with Sorrel, Purslain, Plantane, and unripe Grapes; the feet and hips of Sheep, Kids and Calves, boyled to a Jelly, for the first course, let him take that which is astringent, as a Quince, or four Apple or Pear roasted in the Embers, Marmalet of Quinces, or Jelly of sharp Cherries, Medlars or Services.

Let him abstain from all sharp, salt, peppered and fryed Meats, as also from things that breed much Blood, except he grow weak, and then you may give him them sparingly. He must be but little nourished, for the less Blood is bred, the Disease will be the less, and the empty parts by their attraction will stay the Flux.

Let him drink little, only a little Iron water with a little juyce of Pomegranates. He must drink no Wine except it be thick and sharp, which we call *Tortium*, and it must be when there is no Feaver.

Let the Air be cool, without Wind, Sun, or Moon-shine; let him sleep little, and not in the day; for although all Fluxes are said to be stopped by sleep, yet this by long keeping the heat in the Center may be encreased. Let his belly be loose, and he kept free from passions.

After his Diet is thus ordered, we must go on to Chyrurgery and Medicine.

And first take away little blood often, for the greater Revulsion; and that out of the Liver Vein called *Basilica*, in the right Arm, if it come from the Liver, in the left, if from the Spleen; or from the Ancle vein, if from stoppage of the Terms.

Use Frictions and Ligatures to the extreame parts, and give cleansing Clysters.

Apply Cupping-glasses to the Buttocks, Thighs and Loyns, and to the *Hypochondria*.

Give half a scruple of Camphire with four ounces of Oxycrate or Plantane water. Which *Rondeletius* commends in his Counsels for excellent.

If you suspect there is congealed blood, give him a glass of Vinegar and Water, or Oxycrate, for it easily dissolveth blood, and sends it from the veins of the Stomach, and shuts them up.

And foment the Stomach cold with the same.

When Vomiting ceaseth, to astringe the veins, use these following:

Take of the white of an Egg, Rose-water and Vinegar, of each one dram and a half, beat them well, then add two drams of Chalk. Let the Patient take now and then a spoonful. Or,

Take of prepared Coral, Terra Sigillata, Bole-armenick, Blood-Stone, and Troches of Amber, of each one dram; Plantane-water and syrup of Myrtles, of each two ounces; mix them for to be used as the former, or the powder in Broths. Or,

Take of the juyce of Plantane four ounces; give it cold morning and evening. Galen saith, There is nothing better for to stop any kind of Bloody Flux.

The juyce of Purslain and Polyganon or Knot-grass taken with Sugar, is very good for the same.

Take of Plantane and Purslane water, of each one ounce and an half; the Syrup of Myrtles half an ounce, the Syrup of Poppies two or three drams, Sal Prunella one dram. Mix them for a Julep often to be repeated. Or make a Julep of the Decoction of the said Herbs.

Take of old Conserve of Roses, and of Comfry Roots, of each one ounce; of Cydoniatum half an ounce; one candied Myrobalan; Troches of Carabe, and Terra Lemnia, of each two drams; Coral prepared, and Crocus Martis, of each one dram. With the syrup of dried Roses make an Opiate to be taken often.

The Troches of Carabe do not only astringe, but dissolve congealed blood, therefore use them often.

The Syrup of Coral is good; but the Tincture drawn newly with the juyce of Lemmons is better.

When blood is vomited violently, and will not be cured by what hath been said, so that death threatneth, you must give Narcoticks either at the Mouth, or by Clysters.

Anoint the Stomach without with Oyl of Roses and Myrtles washed in Vinegar, and after sprinkle on the powder of Coral, Bole-armenick, and Terra Sigillata.

Or anoint with this:

Take of the Juyce of Plantane and Knot-grass, of each one ounce and an half, Vinegar of Roses one ounce, Oyl Olive six Ounces: Boyl them till the Juyces are consumed; then add of Sanguis Draconis, Mastich, Pomegranate peels, and Myrtles, of each two drams; Camphire one scruple; as much red Wax as will serve to make an Oynment.

Let him drink ordinary water, wherein Iron hath been quenched, with Syrup of Quinces, and Spirit of Vitriol; also make all his Broths of Iron Water.

Let his *Hypochondria* and Loins be fomented with the Decoction of Plantane and Purflain made in Oxycrate.

Let his hands be put into cold Water, for so all Vomiting is stayed.

Afterwards use the Oyntment of *Galen*, called *Refrigerans*, washed in Vinegar, to the same parts.

After sufficient Phlebotomy, you must appoint an often and gentle Purge to take away the cause, and destroy the Disease, by which the blood will be purged from waterish and cholerick Humors which produce this Disease.

These kinds of Purges, given by a wise Physician, do miracles; as we have learnt by Experience.

They must be made of Rhubarb, Myrobalans, Tamarinds, and *Tryphera Persica*; which Medicines do all astringe with their purging, and do no ways stir the Humors, so that you need not fear they will provoke vomiting of blood; you may give them in form of a Bolus with Syrup of Myrtles, or of dried Roses; or in form of a Potion, with the Decoction of Succory, Sorrel, Purflain, or the like.

In time of Purging, which may continue three or four days in a small Dose, at night you may give the aforesaid Opiate or Syrup of Coral, or some of the aforementioned Astringent and strengthening Medicines.

Finally, To prevent, you may give for a long time once in a Week, one dram of the Powder of Rhubarb, or the Magistral Syrup prescribed for to prevent spitting of blood; as also almost all other Medicines laid down in the Cure and Prevention of that, are very good here.

CHAP. IX. Of the Disease called Cholera.

THis Disease is a violent sending forth both by Stool and Vomiting, corrupt, sharp and cholerick Humours.

DIFFERENCES.

It is called *Cholera*, *apo tes Choles* from Choler, as *Galen* shews from the Opinion of the *Gnidian* Physicians, 2. *meth. c.* 2. that it comes from yellow Choler and evil humors like it which is sent upwards and downwards. But *Alexander Trallianus*, lib. 7. c. 14. will not have this Name to be derived from a Cholerick humour, because Choler is not always vomited, but also oftentimes a serous and flegmatick Humour; but it comes rather *Apo toon Chola stool* from the Intestines, which were called *Cholados* by the Ancients, because these Humors come from the Intestines and Entrails: yet the first Etymology is more to be approved, because it is used not only by *Galen*, but by *Hippocrates* 7. *epid. text.* 19. by *Gelsus*, lib. 4. cap. 11. and *Aurelianus*, lib. 3. *acut. cap.* 19. And although a Cholerick humour is not always sent forth, yet one like Choler, sharp, biting and corrupt, is always voided.

Some say the Stomach is the part affected, others the Guts, others both; but we must be of *Galen's* mind, who saith, *de symp. caus. cap.* 2. The part which is principally affected is the Stomach, whose expulsive Faculty is vehemently stirred up, so that it expels the noxious humors at both Orifices. But there is no doubt but the Gullet and Guts are secondarily affected.

Therefore this Affect is a symptom of the expulsive Faculty being hurt, and vehemently stirred up, for it cannot depend upon the retentive Faculty debilitated, for then the humors flow by degrees, as in *Lienteria* and *Cæliaca Passio*: but we must confess that the Disease is more violent if the Retentive Faculty being weak do not resist the expulsive.

Moreover, The Concoction is hurt also, by which evil humors are bred in the Stomach which stir up the expulsive Faculty; but this is an Antecedent Cause, *Hip.* 4. *de victus ratione in acutis, textu* 104. lays down two kinds of Choler, the one moist, and the other dry; the moist is that which hitherto hath been declared, and which is meant only in this definition, as being the more usual: but the dry is more rare, and it comes from a windy spirit going from the Stomach and Guts, and griping those parts through which it passeth.

These Winds are produced either from the fiery heat of the Stomach corrupting the Meat, and making it stink, or from windy rank Meats and Onions, Radishes, and the like. *Sennertus* addeth another cause, borrowed from the Hermetical Doctrine, namely, salt humors, and adust in the *Hypochondria*, which grow hot by the mixture of another humor: For (saith he) as Salts and the Spirits of Salts mixed with sharp Spirits, make abundance of flatuous Spirits, as appears by the mixing of Oyl of Vitriol and *Aqua-fortis*, with Salt of Tartar: So doth it fall out in Mans Body, by the Commixtion of a Salt and Adust Humor with other Spirits, there are many windy Spirits produced.

CAUSES. The immediate Cause of this Disease, is a Cholerick, Burnt, Sharp, Salt, or

or rotten humor in the Stomach, Guts, Spleen, Mesentery, or Pancreas, or some nourishment of evil quality, some strong deadly Medicine, or poyson taken. *Hip. 7. Epid. Text. 90.* doth reckon up almost all the causes of those evil humors, in these words; *Choleric Evacuations upwards and downwards, come from eating too much flesh, especially Swines flesh not roasted. Also for meats not formerly used, from drunkenness with old Wine and sweet, from Pine-kernels, Locusts, rotten Nuts, and from the use of Garlic, Leeks, Onions, especially from boiled Lettuce, Coleworts, and the like crude things; also from Tarts, and sweet meats, Honey meats, Fruits soon perishing, especially from Cucumers, Pumpions; and these Evacuations happen most in Summer, for then they are easily corrupt, and are indigested.*

It is worth the observation from whence so many Choleric Humors should come, which in this Disease are sent forth by Vomit and Stool: It is usually answered, that they come from the Mesentery, and the places adjacent, and sometimes from the whole body, which though it be probable, yet we may say, that humors corrupted in the Stomach, and parts near thereto, do infect other humors with their malignity, and that Nature is constrained to send to the Stomach and Guts, as venomous Medicines, *Antimony, Coloquintida, Elaterium*, and the like, by corrupting of the good humors, do make an *Hypercarthasis*, or over purging.

SIGNS DIAG. The signs of this Disease, are an often and plentiful sending forth of Choleric, sharp, and other corrupt humors by vomiting and stool, a gnawing of the Stomach and Guts, a swelling with wind, pains, thirst, with much heat and disturbance; great Nauseousness and loathing, which is somewhat appeased with cold drink, but presently is cast forth with hot. The Pulse is sometimes small and unequal; sometimes with great sweating, and Convulsion of the Thighs and Arms, swooning, coldness of extrem parts, and other grievous symptoms.

The Causes of this Disease are easily known.

And first, The external are known by relation of the Patient, and those that stand by. If he have taken too much, or food of an evil quality, or poyson, or some violent Medicine.

The internal Causes are known by the quality of those humors which are sent forth. We conjecture it comes from the fault of the Stomach, if other parts are not disordered, and when there is a continual loathing, gnawing, and pain of the Stomach, the matter is sent forth green; but if it be bred in the Veins, there is commonly a malignant Fever adjoined.

PROGNOSTICK. You must make your Prognosticks thus:

If it be very violent, it brings commonly sudden death. If it come from some evil Food, it is less dangerous; for when that is sent forth, the Disease ceaseth.

By how much the greater the symptoms are, as Swooning, Convulsion, and coldness of the extrem parts, by so much the nearer at hand is death.

Hippocrates in Coac. sheweth, that this is sometimes Critical to Fevers called *Lipyræ*, which can no other ways be cured (as he saith) but by a great casting forth of Choler both upwards and downwards; and these Crises or Judgments happen seldom, and ought to be suspected, because they have not the conditions of a good and Health-bringing Crisis.

If vomiting begin to cease, and the wan and deadly colour of the Face to be restored, there is hope of Health.

CURE. In the Cure of this Disease, in the beginning thereof, some evacuation may be allowed while the evil and corrupt humors do flow forth. And you must help it forward with drinking warm water with Syrup of Vinegar, or with a great deal of thin Chicken Broth; which if it provoke not Vomit, will allay the sharpness of the humors. Or you may evacuate them with Rhubarb brought into a Pill with Syrup of Wormwood, and with cleansing Clysters.

Also fat mollifying Clysters are to be given, made of Milk, Oyl of Roses, fresh Butter washed with Rose-water, or made of Chicken Broth, or Veal Broth with Yelks of Eggs; with which, as the disease shall require, you may mix Narcoticks.

Also Clysters of Oxycrate are good, or made of the Decoction of Lettuce, Plantane, with a little Vinegar, Syrup of Water-Lillies, and Yelks of Eggs.

Also you must qualifie the humors sharpness with internal Medicines; as with the Decoction of Purslane and Plantane with Syrup of Quinces, and dried Roses with *Lapis Prunella*, if there be heat and thirst.

And you must stop Vomiting with those things both internal and external, which were prescribed in the cure of Choleric vomiting, *Chap. 7.*

Among which, the Narcoticks are best, and especially new Treacle, which given in the quantity of a dram, doth presently stop those violent Evacuations, *Laudanum* doth the same, if you give four grains thereof.

If there be great weakness (as often happeneth) it is not safe to give the whole dose of *Laudanum*, but it is better to give one or two grains, and to give it once or twice in a day, as necessity urgeth: for so the force of the humors will be restrained, and Nature will have time to tame and concoct them.

After

After vomiting and purging are stayed by the Medicines aforesaid, and the strength is restored by Cordial means, the Patient seemeth to be past danger; which doth not only sometimes deceive the standers by, but also the Physicians themselves: for after a day or two of rest and intermission, the symptoms return more strong and violent, and destroy the Patient who was made weak by their former encounter; which danger you must prevent, not only with Restauratives, and things that take away the heat of the Humors, as before-mentioned, which must be continued after they are appeased; but especially with Blood-letting, which doth revel the burnt and boyling blood, and greatly assuage it; and you must do it twice or thrice, if the strength be not impaired by the first, but rather seem to be refreshed. Some Practitioners in the time of the fit, when strength is decayed, adventure to open a Vein, because they say the strength is oppressed. But it cannot then be done without danger; and sometimes the Patient presently after dieth, to their shame. For though we acknowledge that there is an oppression of the strength by reason of the superfluous humor, which is contained in the Veins, being an Enemy to Nature; yet it cannot be denied, but it is greatly decayed by those grievous vomits and stools. It is better therefore first to allay the violence of the humors, and after the symptoms are asswaged to open a vein.

And because in this Disease the strength quickly fails by strong evacuations, you must be very careful in the restoring of it by that way which is shewed in the Cure of weakness in the eighth Book, and the third Chapter.

CHAP. X.

Of Pain in the Stomach, called Dolor Ventriculi.

IT is a sad and troublesome sence in that part, from some things that gnaw and stretch it till it break, or be wounded.

In the Stomach you must consider three parts, which much differ one from the other, namely, its upper Orifice, and its lower, called *Pylorus*, and the rest of its Body which maketh up the whole Cavity.

The upper Orifice is of exquisite sence, by reason of the great Nerve which it hath from the sixth Conjugation, and therefore pain therein is very sharp, and makes the Heart which is the most noble part, and near unto it sensible of the same; from whence it is called *Cardialgia* and *Cardiognos*; for there is such a near consent between the mouth of the Stomach, and the Heart, that the Ancients called it by the name of the Heart, *Cardia*.

But if the Members of the Cavity, or the *Pylorus* be pained, it is called simply *Dolor Ventriculi*, and sometimes *Colica Ventriculi*, especially when it comes of wind.

CAUSES. The immediate Cause of this pain is solution of Continuity by things sharp and distending, and they are chiefly Humors, or Wind, and sometimes Worms gnawing the Tunicles.

Sharp and malignant Humors, as green Choler or black, salt Flegm, corrupt Matter sent into the Stomach from an Imposthume broken in the Liver or Breast, and all other sharp Humors which may cause pain.

Also sharp vapors coming from those Humors use to cause this pain.

The wind contained in the Cavity of the Stomach, doth cause swelling and painful distension, especially if it be restrained within its Tunicles, which makes a very stubborn Disease, and cannot easily be sent out.

The Disease both of the Stomach it self, and of the parts adjoyning, use to breed this pain, as any great distemper either hot or cold, and especially an Inflammation, and sometimes a Scirrhus or other hard Tumor which maketh a heavy pain; as also Wounds and Ulcers of the same part, and swellings in parts adjoyning by the wind or other ways, cause this pain by compression of the Stomach.

Now these Humors and Winds which cause pain in the Stomach, either come from the whole body, or some parts thereof. From the whole Body, in Feavers, or when the Body is filled with evil Humors. And from other parts, especially the Liver, Spleen and Brain; from the Liver there comes Choler; from the Spleen, Melancholy; and from the Head, salt Flegm.

Also this pain may arise from extraordinary causes not usual, as *Skenkins* observes from stones bred in the Stomach, *lib. 3. Observat.* And *Fabricius Hildanus, Observ. 33. lib.* reports, that a Woman had a piece of Rind of rusty Bacon two years in her Stomach, wherewith she was continually pained, and which after by taking a Vomit, she threw up, and was cured.

The external causes of this Disease, are Meats either evil qualified, or of sharp nourishment, which of themselves produce it, or things apt to breed Wind, or things taken in too great quantity, which putrifie and turn sharp; or things that are too hot, and breed much choler: As also strong, sharp, deadly

deadly Medicines, either taken in too great a quantity, or not sufficiently corrected, and poyson.

DIAGNOSTICK. The Diagnostick Signs are from the part affected, and the cause.

And first, when the pain is under the Cartilage of *Ensiformis* or *Xiphoids*, it shews that the upper Orifice of the stomach is affected; but that it is a true *Cardialgia* in the mouth of the stomach, you may know more certainly when there is a most sharp pain from the exquisite sence of the part with such trouble and disturbance that the Patient cannot stay in a place, or in one posture, but often swoonds and fainteth by consent and sympathy of the heart with the stomach, not only by nearness to it, but also by reason of the dissipation of the spirits by the pain. Sometimes the Brain consents; by reason of the famous Nerve which is in the stomach, and the sharp vapors which are directly sent into the head from thence, from whence come *Cephalagia*, *Hemicrania*, *Vertigo* and *Epilepsia*.

In other parts of the stomach there are great pains, but they have not so great symptoms, and therefore they are like the Cholick, differing only in place.

The Causes also are known by their proper signs. The most manifest are taken from the Excrements; for if Choler, Flegm, Wind, Worms, are voided at the Mouth or Belly, it is easie to conjecture that the disease depends upon these Causes. But if no Humors be discharged we may know when Choler, Flegm or Wind abounds by their proper signs; and the signs of Worms are to be taken out of their proper Chapter: As also the proper diseases both of the stomach and parts adjoining, which produce this Disease, are known by their proper signs. The knowledg of the Humor causing this pain, is also taken from the time of its coming, encrease and cessation. Some are troubled most violently before meat, and this shews that Choler is predominant, which is stirred in time of emptiness, and drawn to the stomach, and made more sharp. Some are pained presently after meat, because the raw biting Humors, which before were quiet and fixed to the Tunicles of the Stomach, are moved when Meat is taken, or they which were in the bottom of the Stomach, are raised up, and disturb the mouth of the stomach. Others are pained in time of Concoction, because sharp gnawing vapors arise from the Matter, causing the Disease from the heat encreased in the stomach in time of Concoction. Others are pained four or five hours after meat, because it is corrupted by evil concoction, and so gnaweth the stomach. Some are worst after sleep, and that comes from a Catarrh from the head in the time of sleeping, which being heaped up in the stomach, produceth pain afterwards. Sometimes the pain is appeased after meat, because the sharpness of the Humors is qualified by the sweetness of the meat.

PROGNOSTICK. As for the Prognostick, it is most certain that *Cardialgia* is more dangerous than any other disease of the stomach by reason of the exquisite sence of the mouth of the stomach, and its great consent with the principle parts.

The danger is more or less, according to the malignity of the Cause, and the vehemency of the symptoms.

A continual acute Feaver joyned with a great pain of the stomach, threatneth great danger; as *Hippocrates* saith, *Aph. 65. Sect. 5. In Feavers, if there be great heat about the Stomach, and Cardigmos, it is evil*, for it signifieth that there is a great Inflammation of the stomach, or abundance of bad humors contained therein.

The pain of the Stomach coming from Worms or Wind, is commonly least dangerous, because the Cause is not so bad, and not fixed of the part. But sometimes from Worms gnawing in the stomach, great symptoms happen, of which the Patient suddenly dieth.

So when the distemper which begets wind, is stubborn and habitual, it is not without danger, for it turneth to a dry dropsie; *Hippocrates, Aphor. 11. Sect. 4. In a Cardialgia, coldness of the extreame parts signifieth death at hand.*

CURE. The Cure of this Disease is to be varied according to the diversity of the Causes. If it come from the Diseases of other parts, you must cure them. But if the cause in the stomach alone, the pain comes either from wind, or sharp humors and Cholerick, or from inflammation; Imposthume, or Ulcer. That which comes from Wind is to be cured by Medicines that discuss and evacuate that flatulent Matter, as also the flegm from whence it comes.

And first you must give a gentle Emollient Laxative Clyster, and presently after another Carminative, that is, expelling Wind, and discussing, of the decoction of Origan, Calamints, Pennyroyal, Rue, the lesser Centaury, Annis-seeds, Fennel-seeds, Carrots, and Cummin-seeds, and the like: In which dissolve *Benedicta Laxativa*, Oyl of Dill, Rue, and Hony of Rosemary.

If the pain continue, you must make a Clyster of equal parts of Sack, or Hippocras, Oyl of Rue, or of Nuts with two ounces of *Aqua Vite*.

Or make a Clyster of white Wine with Oyl of Juniper, or eight drops of the Chymical Oyl of Cinamon or Cloves, which doth Miracles.

Then foment the Stomach with this:

Take of Cypress Roots, Galangal, Calamus Aromaticus, of each one ounce; Mints, Origan, Pennyroyal, Marjerom, Hyssop, Sage, of each one handful, Annis, Fennel, Caraway, and Carrot seeds, and Bay.

Let his *Hypochondria* and Loins be fomented with the Decoction of Plantane and Purslain made in Oxycrate.

Let his hands be put into cold Water, for so all Vomiting is stayed.

Afterwards use the Oyntment of *Galen*, called *Refrigerans*, washed in Vinegar, to the same parts. After sufficient Phlebotomy, you must appoint an often and gentle Purge to take away the cause, and destroy the Disease, by which the blood will be purged from waterish and cholerick Humors, which produce this Disease.

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In time of Purging, which may continue three or four days in a small Dose, at night you may give the aforesaid Opiate or Syrup of Coral, or some of the aforementioned Astringent and strengthening Medicines.

Finally, To prevent, you may give for a long time once in a Week, one dram of the Powder of Rhubarb, or the Magistral Syrup prescribed for to prevent spitting of blood; as also almost all other Medicines laid down in the Cure and Prevention of that, are very good here.

CHAP. IX.

Of the Disease called Cholera.

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DIFFERENCES.

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Some say the Stomach is the part affected, others the Guts, others both; but we must be of *Galen's* mind, who saith, *de symp. caus. cap.* 2. The part which is principally affected is the Stomach, whose expulsive Faculty is vehemently stirred up, so that it expels the noxious humors at both Orifices. But there is no doubt but the Gullet and Guts are secondarily affected.

Therefore this Affect is a symptom of the expulsive Faculty being hurt, and vehemently stirred up, for it cannot depend upon the retentive Faculty debilitated, for then the humors flow by degrees, as in *Lienteria* and *Cæliaca Passio*: but we must confess that the Disease is more violent if the Retentive Faculty being weak do not resist the expulsive.

Moreover, The Concoction is hurt also, by which evil humors are bred in the Stomach which stir up the expulsive Faculty; but this is an Antecedent Cause, *Hip.* 4. *de victus ratione in acutis, textu* 104. lays down two kinds of Choler, the one moist, and the other dry; the moist is that which hitherto hath been declared, and which is meant only in this definition, as being the more usual: but the dry is more rare, and it comes from a windy spirit going from the Stomach and Guts, and griping those parts through which it passeth.

These Winds are produced either from the fiery heat of the Stomach corrupting the Meat, and making it stink, or from windy rank Meats and Onions, Radishes, and the like. *Sennertus* addeth another cause, borrowed from the Hermetical Doctrine, namely, salt humors, and adust in the *Hypochondria*, which grow hot by the mixture of another humor: For (saith he) as Salts and the Spirits of Salts mixed with sharp Spirits, make abundance of flatuous Spirits, as appears by the mixing of Oyl of Vitriol and *Aqua-fortis*, with Salt of Tartar: So doth it fall out in Mans Body, by the Commixtion of a Salt and Adust Humor with other Spirits, there are many windy Spirits produced.

CAUSES. The immediate Cause of this Disease, is a Cholerick, Burnt, Sharp, Salt, or

or rotten humor in the Stomach, Guts, Spleen, Mesentery, or Pancreas, or some nourishment of evil quality, some strong deadly Medicine, or poyson taken. *Hip. 7. Epid. Text. 90.* doth reckon up almost all the causes of those evil humors, in these words; *Choleric Evacuations upwards and downwards, come from eating too much flesh, especially Swines flesh not roasted. Also for meats not formerly used, from drunkenness with old Wine and sweet, from Pine-kernels, Locusts, rotten Nuts, and from the use of Garlic, Leeks, Onions, especially from boiled Lettuce, Coleworts, and the like crude things; also from Tarts, and sweet meats, Honey meats, Fruits soon perishing, especially from Cucumers, Pompions; and these Evacuations happen most in Summer, for then they are easily corrupt, and are indigested.*

It is worth the observation from whence so many Choleric Humors should come, which in this Disease are sent forth by Vomit and Stool: It is usually answered, that they come from the Mesentery, and the places adjacent, and sometimes from the whole body, which though it be probable, yet we may say, that humors corrupted in the Stomach, and parts near thereto, do infect other humors with their malignity, and that Nature is constrained to send to the Stomach and Guts, as venomous Medicines, *Antimony, Coloquintida, Elaterium*, and the like, by corrupting of the good humors, do make an *Hypercarthasis*, or over purging.

SIGNS DIAG. The signs of this Disease, are an often and plentiful sending forth of Choleric, sharp, and other corrupt humors by vomiting and stool, a gnawing of the Stomach and Guts, a swelling with wind, pains, thirst, with much heat and disturbance; great Nauseousness and loathing, which is somewhat appeased with cold drink, but presently is cast forth with hot. The Pulse is sometimes small and unequal; sometimes with great sweating, and Convulsion of the Thighs and Arms, swooning, coldness of extrem parts, and other grievous symptoms.

The Causes of this Disease are easily known.

And first, The external are known by relation of the Patient, and those that stand by. If he have taken too much, or food of an evil quality, or poyson, or some violent Medicine.

The internal Causes are known by the quality of those humors which are sent forth. We conjecture it comes from the fault of the Stomach, if other parts are not distempered, and when there is a continual loathing, gnawing, and pain of the Stomach, the matter is sent forth green; but if it be bred in the Veins, there is commonly a malignant Fever adjoyned.

PROGNOSTICK. You must make your Prognosticks thus:

If it be very violent, it brings commonly sudden death. If it come from some evil Food, it is less dangerous; for when that is sent forth, the Disease ceaseth.

By how much the greater the symptoms are, as Swooning, Convulsion, and coldness of the extrem parts, by so much the nearer at hand is death.

Hippocrates in Coac. sheweth, that this is sometimes Critical to Feavers called *Lipyræ*, which can no other ways be cured (as he saith) but by a great casting forth of Choler both upwards and downwards; and these Crises or Judgments happen seldom, and ought to be suspected, because they have not the conditions of a good and Health-bringing Crisis.

If vomiting begin to cease, and the wan and deadly colour of the Face to be restored, there is hope of Health.

CURE. In the Cure of this Disease, in the beginning thereof, some evacuation may be allowed while the evil and corrupt humors do flow forth. And you must help it forward with drinking warm water with Syrup of Vinegar, or with a great deal of thin Chicken Broth; which if it provoke not Vomit, will allay the sharpness of the humors. Or you may evacuate them with Rhubarb brought into a Pill with Syrup of Wormwood, and with cleansing Clysters.

Also fat mollifying Clysters are to be given, made of Milk, Oyl of Roses, fresh Butter washed with Rose-water, or made of Chicken Broth, or Veal Broth with Yelks of Eggs; with which, as the disease shall require, you may mix Narcoticks.

Also Clysters of Oxycrate are good, or made of the Decoction of Lettuce, Plantane, with a little Vinegar, Syrup of Water-Lillies, and Yelks of Eggs.

Also you must qualifie the humors sharpness with internal Medicines; as with the Decoction of Purslane and Plantane with Syrup of Quinces, and dried Roses with *Lapis Prunella*, if there be heat and thirst.

And you must stop Vomiting with those things both internal and external, which were prescribed in the cure of Choleric vomiting, *Chap. 7.*

Among which, the Narcoticks are best, and especially new Treacle, which given in the quantity of a dram, doth presently stop those violent Evacuations, *Laudanum* doth the same, if you give four grains thereof.

If there be great weakness (as often happeneth) it is not safe to give the whole dose of *Laudanum*, but it is better to give one or two grains, and to give it once or twice in a day, as necessity urgeth: for so the force of the humors will be restrained, and Nature will have time to tame and concoct them.

After

After vomiting and purging are stayed by the Medicines aforesaid, and the strength is restored by Cordial means, the Patient seemeth to be past danger; which doth not only sometimes deceive the standers by, but also the Physicians themselves: for after a day or two of rest and intermission, the symptoms return more strong and violent, and destroy the Patient who was made weak by their former encounter; which danger you must prevent, not only with Restauratives, and things that take away the heat of the Humors, as before-mentioned, which must be continued after they are appeased; but especially with Blood-letting, which doth reveal the burnt and boiling blood, and greatly assuage it; and you must do it twice or thrice, if the strength be not impaired by the first, but rather seem to be refreshed. Some Practitioners in the time of the fit, when strength is decayed, adventure to open a Vein, because they say the strength is oppressed. But it cannot then be done without danger; and sometimes the Patient presently after dieth, to their shame. For though we acknowledge that there is an oppression of the strength by reason of the superfluous humor, which is contained in the Veins, being an Enemy to Nature; yet it cannot be denied, but it is greatly decayed by those grievous vomits and stools. It is better therefore first to allay the violence of the humors, and after the symptoms are assuaged to open a vein.

And because in this Disease the strength quickly fails by strong evacuations, you must be very careful in the restoring of it by that way which is shewed in the Cure of weakness in the eighth Book, and the third Chapter.

CHAP. X.

Of Pain in the Stomach, called Dolor Ventriculi.

IT is a sad and troublesome sence in that part, from some things that gnaw and stretch it till it break, or be wounded.

In the Stomach you must consider three parts, which much differ one from the other, namely, its upper Orifice, and its lower, called *Pylorus*, and the rest of its Body which maketh up the whole Cavity.

The upper Orifice is of exquisite sence, by reason of the great Nerve which it hath from the sixth Conjugation, and therefore pain therein is very sharp, and makes the Heart which is the most noble part, and near unto it sensible of the same; from whence it is called *Cardialgia* and *Cardiognos*; for there is such a near consent between the mouth of the Stomach, and the Heart, that the Ancients called it by the name of the Heart, *Cardia*.

But if the Members of the Cavity, or the *Pylorus* be pained, it is called simply *Dolor Ventriculi*, and sometimes *Colica Ventriculi*, especially when it comes of wind.

CAUSES. The immediate Cause of this pain is solution of Continuity by things sharp and distending, and they are chiefly Humors, or Wind, and sometimes Worms gnawing the Tunicles.

Sharp and malignant Humors, as green Choler or black, salt Flegm, corrupt Matter sent into the Stomach from an Imposthume broken in the Liver or Breast, and all other sharp Humors which may cause pain.

Also sharp vapors coming from those Humors use to cause this pain.

The wind contained in the Cavity of the Stomach, doth cause swelling and painful distension, especially if it be restrained within its Tunicles, which makes a very stubborn Disease, and cannot easily be sent out.

The Disease both of the Stomach it self, and of the parts adjoining, use to breed this pain, as any great distemper either hot or cold, and especially an Inflammation, and sometimes a Scirrhus or other hard Tumor which maketh a heavy pain; as also Wounds and Ulcers of the same part, and swellings in parts adjoining by the wind or other ways, cause this pain by compression of the Stomach.

Now these Humors and Winds which cause pain in the Stomach, either come from the whole body, or some parts thereof. From the whole Body, in Feavers, or when the Body is filled with evil Humors. And from other parts, especially the Liver, Spleen and Brain; from the Liver there comes Choler; from the Spleen, Melancholy; and from the Head, salt Flegm.

Also this pain may arise from extraordinary causes not usual, as *Skenkins* observes from stones bred in the Stomach, *lib. 3. Observat.* And *Fabricius Hildanus, Observ. 33. lib.* reports, that a Woman had a piece of Rind of rusty Bacon two years in her Stomach, wherewith she was continually pained, and which after by taking a Vomit, she threw up, and was cured.

The external causes of this Disease, are Meats either evil qualified, or of sharp nourishment, which of themselves produce it, or things apt to breed Wind, or things taken in too great quantity, which putrifie and turn sharp; or things that are too hot, and breed much choler: As also strong, sharp, deadly

deadly Medicines, either taken in too great a quantity, or not sufficiently corrected, and poyson.

DIAGNOSTICK. The Diagnostick Signs are from the part affected, and the cause.

And first, when the pain is under the Cartilage of *Ensiformis* or *Xiphoids*, it shews that the upper Orifice of the stomach is affected; but that it is a true *Cardialgia* in the mouth of the stomach, you may know more certainly when there is a most sharp pain from the exquisite sence of the part with such trouble and disturbance that the Patient cannot stay in a place, or in one posture, but often swoonds and fainteth by consent and sympathy of the heart with the stomach, not only by nearness to it, but also by reason of the dissipation of the spirits by the pain. Sometimes the Brain consents; by reason of the famous Nerve which is in the stomach, and the sharp vapors which are directly sent in to the head from thence, from whence come *Cephalagia*, *Hemicrania*, *Vertigo* and *Epilepsia*.

In other parts of the stomach there are great pains, but they have not so great symptoms, and therefore they are like the Cholick, differing only in place.

The Causes also are known by their proper signs. The most manifest are taken from the Excrements; for if Choler, Flegm, Wind, Worms, are voided at the Mouth or Belly, it is easie to conjecture that the disease depends upon these Causes. But if no Humors be discharged we may know when Choler, Flegm or Wind abounds by their proper signs; and the signs of Worms are to be taken out of their proper Chapter: As also the proper diseases both of the stomach and parts adjoyning which produce this Disease, are known by their proper signs. The knowledg of the Humor causing this pain, is also taken from the time of its coming, encrease and cessation. Some are troubled most violently before meat, and this shews that Choler is predominant, which is stirred in time of emptiness, and drawn to the stomach, and made more sharp. Some are pained presently after meat, because the raw biting Humors, which before were quiet and fixed to the Tunicles of the Stomach, are moved when Meat is taken, or they which were in the bottom of the Stomach, are raised up, and disturb the mouth of the stomach. Others are pained in time of Concoction, because sharp gnawing vapors arise from the Matter, causing the Disease from the heat encreased in the stomach in time of Concoction. Others are pained four or five hours after meat, because it is corrupted by evil concoction, and so gnaweth the stomach. Some are worst after sleep, and that comes from a Catarrh from the head in the time of sleeping, which being heaped up in the stomach, produceth pain afterwards. Sometimes the pain is appeased after meat, because the sharpness of the Humors is qualified by the sweetness of the meat.

PROGNOSTICK. As for the Prognostick, it is most certain that *Cardialgia* is more dangerous than any other disease of the stomach by reason of the exquisite sence of the mouth of the stomach, and its great consent with the principle parts.

The danger is more or less, according to the malignity of the Cause, and the vehemency of the symptoms.

A continual acute Feaver joyned with a great pain of the stomach, threatneth great danger; as *Hippocrates* saith, *Aph. 65. Sect. 5. In Feavers, if there be great heat about the Stomach, and Cardiomos, it is evil*, for it signifieth that there is a great Inflammation of the stomach, or abundance of bad humors contained therein.

The pain of the Stomach coming from Worms or Wind, is commonly least dangerous, because the Cause is not so bad, and not fixed of the part. But sometimes from Worms gnawing in the stomach, great symptoms happen, of which the Patient suddenly dieth.

So when the distemper which begets wind, is stubborn and habitual, it is not without danger, for it turneth to a dry dropie; *Hippocrates, Aphor. 11. Sect. 4. In a Cardialgia, coldness of the extreame parts signifieth death at hand.*

CURE. The Cure of this Disease is to be varied according to the diversity of the Causes. If it come from the Diseases of other parts, you must cure them. But if the cause in the stomach alone, the pain comes either from wind, or sharp humors and Cholerick, or from inflammation; Imposthume, or Ulcer. That which comes from Wind is to be cured by Medicines that discuss and evacuate that flatulent Matter, as also the flegm from whence it comes.

And first you must give a gentle Emollient Laxative Clyster, and presently after another Carminative, that is, expelling Wind, and discussing, of the decoction of Origan, Calamints, Pennyroyal, Rue, the lesser Centaury, Annis-seeds, Fennel-seeds, Carrots, and Cummin-seeds, and the like: In which dissolve *Benedicta Laxativa*, Oyl of Dill, Rue, and Hony of Rosemary.

If the pain continue, you must make a Clyster of equal parts of Sack, or Hippocras, Oyl of Rue, or of Nuts with two ounces of *Aqua Vita*.

Or make a Clyster of white Wine with Oyl of Juniper, or eight drops of the Chymical Oyl of Cinamon or Cloves, which doth Miracles.

Then foment the Stomach with this:

Take of Cypress Roots, Galangal, Calamus Aromaticus, of each one ounce; Mints, Origan, Pennyroyal, Marjerom, Hyssop, Sage, of each one handful, Annis, Fennel, Caraway, and Carrot seeds, and Bay-

Bay-berries, of each half an ounce; Chamomel, Melilot, Rosemary and Lavender flowers, of each one pugil; beat them, and slice them; and put them into two bags, and boyl them in Sack; then squeeze them, and apply them one after another to the Stomach, and all the Belly.

When the matter is not so cold, this Fomentation following may be prepared, which is highly commended by *Forestus*, because it hath presently cured when other things failed.

Take of Althea Roots half an ounce; red Roses, Chamomel Flowers and tops of Wormwood, of each one handful; boyl them in common Water, and Chamomel Water, to one pint and an half, adding in the end a little Rhenish Wine, Rose Water and Vinegar. Make a Fomentation.

After Fomentation, anoint with Oyl of Rue and Dill mixed with *Aqua-vita*, and a little Chymical Oyl of Sage or Cloves.

After the anointing, apply a Plaster of Bay-berries, or instead thereof a Cataplasm of Hony and Cummin-seed.

While these are doing, if there be loathing, you may provoke vomiting gently, or give a Purge against Flegm.

After Purging give Oyl of bitter Almonds newly drawn, mixed with white Wine, or Hippocras mixed with *Aqua Clareta*, or Cinnamon Water.

This following Julep is most admirable to assuage pain, discuss Wind, and strengthen the Stomach:

Take of Wormwood, Centaury the less and Agrimony, of each half a handful; boyl them to five ounces, and add to it being strained, one ounce of Sugar. Let him take it two mornings together.

Amatus Lusitanus commends highly the distilled Water of Chamomel flowers, as a most excellent Remedy to assuage the pains of the Stomach and Entrails, of which you must give three ounces warm. Or in the defect of that, you may make a Decoction of Chamomel flowers, which is so much commended by *Forestus*, who saith that he cured a Merchant with this only Decoction, once only given, of great pain of his stomach, which made him roar; which when he had drunk off, he belched, and fell into a sweat, and all his pain vanished, as by an Inchantment, so that he needed no other help. You may also make a Vomit at the beginning of the disease, which by evacuation may abate the pain, of this Decoction, made with Dill seeds, or Agarick, or the Roots of *Asarabaca*, dissolving therein, Oxymel, Syrup of Vinegar, or of Roses Solutive.

Galen teacheth, That a Cupping-glass applied to the stomach doth presently take away pain. But you must use this Caution, That no crude humor, or very little, lie in the stomach, otherwise the pain will be encreased.

Also you may with good success apply Bread hot from the Oven, cut in the middle, either by it self, or sprinkled with Spices.

Lastly, if the pain continue violent, you must use a Bath of the decoction of mollifying herbs that are hot, which is most safe and powerful, for it takes away the pain by discussing the wind, and sending it forth by the open pores, which it will the better do, if you give some discussing Medicine to the Patient while he is in the Bath; for both internal and external helps concurring, the work will be done.

The Bath must be very hot that the Wind may be better discussed, and the thick Humors melted.

If by reason of the vehement pain, Clysters can neither be given nor retained, you must give a Purge in the Bath, and let him stay therein an hour, or half an hour, till the power of the Medicine touch the Stomach.

Sometimes when the violence of the pain threatneth danger, you must give Narcoticks, which being wisely given, bring wonderful effects.

Some mix Narcoticks with their Purges that the pain may be allayed, and the matter evacuated: such as the Medicine of *Elidam* commended by *Forestus*, made thus:

Take of Diaphœnicon half an ounce; Philonium Romanum two scruples; with the Water or Decoction of Chamomel make a Potion.

After the pain is gone, let them who are subject to this disease, be purged once or twice in a moneth to take away the immediate cause of Wind. And let them use strengtheners, such as were prescribed in the Cure of *Concoction hurt*.

The pain which comes of Choler, is to be cured by the evacuation thereof, with a gentle Vomit or Purge, or with frequent Clysters that are emollient, not sharp or hot.

Afterwards, qualify the sharpness of the humors with cooling Juleps that thicken, with Emulsions of the great cold Seeds, new Milk, new Oyl of sweet Almonds, yolks of Eggs, and the like.

In the mean while omit not Opiates, and other strengtheners prescribed in the former Cures.

And at last, when need requireth, use Narcoticks.

Apply outwardly a Cataplasm of Bread and Milk, with yolks of Eggs, and Saffron.

Or

Or Bread from the Oven broken in the middle and dipt in Vinegar.

Or foment the part with the Decoction of Chamomel flowers, Violets and Water Lillies, or which is best, put the Patient in a warm Bath, for that is most proper.

After the pain is gone, lest it should return, let the Patient purge twice every moneth, and let the hot distemper of his Belly be corrected with a cooling diet and convenient Remedies.

That pain which comes from Inflammation, Imposthume or Ulcer, may be cured with the Remedies prescribed in the following Chapter.

CHAP. XI.

Of the Inflammation, Ulcer, and Imposthume in the Stomach.

Although all kinds of Tumors may arise in the Stomach as well as other parts, yet we will speak here only of a Phlegmon or Inflammation, which is most usual; the other happen seldom, and may be cured by the same Method with the Tumors of other internal parts.

CAUSES. The Inflammation of the Stomach is a preternatural Tumor coming of Blood which is sent into the substance of the Stomach and its Membranes by the Veins derived from the branches of the *Vena Porta*.

This blood is either pure, and makes a proper Phlegmon, or mixed with Choler, Flegm or Melancholy, and makes a Phlegmon Erysipelatous, Oedomatous, or Schirrous.

The external Causes may be many, all that inflame the blood, as hot Meats, Wine, or all that can drive it to the part; as a blow upon the Belly, especially when it is full; to which you may add things that are very sharp and very hot, as Cantharides sublimated.

DIAGNOSTICK. The Signs of this disease called *Diagnostica*, are a great pain, burden, pricking, distending and beating, reaching to the Back; you may feel a Tumor, and sometimes see it, the Shoulders are drawn downwards, the breathing is difficult, as also swelling and belching, sometimes blood is vomited; there is a most burning Fever, with most grievous symptoms.

If the Inflammation be pure only from blood, it is somewhat gentler; but if it be with Choler called *Erysipilas*, there are grievous symptoms, and the *Febris* called *Lipyria*, in which the exterior parts are cold, and the internal burn, and there is an unquenchable thirst; such a kind of Fever useth to be in an Erypelous Inflammation of the Intestines.

Like to this Inflammation of the Stomach, is that which is in the upper part of the Liver by which the Stomach is covered, or in that part of the Belly which lieth upon it; which is only distinguished by the deadly symptoms, for then the Stomach hath the most desperate.

PROGNOSTICK. From what hath been said is easie to Prognostick and to pronounce this disease to be for the most part deadly.

But that is most dangerous which is over the whole Stomach, or its upper part, or which is like to an Erysipelas.

Galen 3. Prorrh. shews, That much Loathing and Rumbling of the Belly is evil: For it sheweth that evil Humors do stick close to the Tunicle of the Stomach, and pull them to provoke Expulsion.

If the Inflammation do not kill, nor is dispersed, it turns to an Imposthume, which is known by the mitigation of the Pain and the Fever, while the Tumor remaineth.

After the Imposthume is broken, there remaineth an Ulcer which is known by voiding of Matter by Vomit and Stool.

But an Ulcer is produced in the Stomach, not only from an Imposthume, but from other Causes which we shall here reckon up, lest we seem defective in Theory.

The Causes of Ulcers in the Stomach, are either Internal or External.

The internal are sharp Humors bred in the Stomach, are sent thither from other parts, as yellow Choler, or black or salt Flegm.

The External are sharp Medicines that Corrode, or Poysons, and Wounds of the Stomach not well cured, which turn into Ulcers; as also the breach of some great Veins which could not well grow together, after much vomiting of Blood.

An Ulcer bred in the Stomach is known chiefly by Matter which is cast forth by Vomit or Stool, to which principal sign there are others to be added: First there is perceived in the belly a pricking pain joyned with burning, especially when any thing is taken that is strong in quality, either sharp, salt or sour, or very cold or hot: there is also no Appetite, stinking belching, and a constant lingering Fever.

The Prognostick is always deadly except the Ulcer be very little, and only in the superficies,

and without a Feaver. For the Membranes of the Stomach being ulcerated, being a Spermatick part, will hardly grow together again; the Nourishment will be well concocted in a Stomach ill affected, but will be thrown out before concoction, and so rend the Ulcer. Moreover, Medicines do little good, because cleansers which are required for cure of Ulcers increase pain; and dryers which also are required, are continually hindered by the Meat and Drink, and Chyle, and other Humors which continually are in a weak Stomach.

CURE. The Cure of the aforesaid Diseases, is several.

And first, The Cure of Inflammation is to begin with blood-letting often in both Arms, as the strength will endure. And although by reason of swooning and coldness of the extreame parts, the strength seems at first to be impaired; yet because it comes from oppression, it requires evacuation, and therefore blood-letting must not be denied.

Moreover, the opening of the Hemorrhoids, if the Patient be used to that evacuation, doth reveal blood from the Stomach. Also Cupping-Glasses doth dry, and with Scarrification to the Shoulders, Back and Buttocks, with Ligatures and Fractions of the extreame parts, and heating of them (because they are usually cold) with hot clothes, and anointing with Oyl of Flowerdeluce and Spike, and other hot things are very good.

We disallow Purges in this case, because they trouble the Humors, and draw them to the part affected.

But *Avicen* commends the decoction of Tamarinds, or half an ounce of Cassia dissolved in Whey or Endive water, if it be given every day to the Seventh day, because they purge not by attraction, but by mollifying, mitigate sharpness, and assuage pain. But it is better in the beginning to abstain from all Purges. After the seventh day is past, when there appear some signs of concoction and declination, you may give a Purge of Rhubarb one dram, with one scruple of red Sanders infused in Borrage water, adding one ounce or two of Syrup of Roses, that the filth which sticketh to the part may be brought forth more powerfully.

In the mean while, you must every day give Emollient, Cooling and Lenitive Clysters, such as these:

Take of chicken Broth, or the decoction of Mallows and Violets, of each one pint; Cassia new drawn one ounce; Oyl of Roses and Violets, of each two ounces; Sugar one ounce and an half: With two yolks of Eggs make a Clyster.

You must give altering and strengthening Medicines at the Mouth, they may be the same which were propounded in the Cure of the pain of the Stomach from a cholerick Humor.

But the Syrup of Water Lillies, and of the Juyce of Purslain, are pacularly good, especially in the beginning, because they supply the place of Repelling Medicines.

Also Emulsions made of the four great cold seeds, and white Poppy-seeds are good, for they assuage pain and heat. As these following Juleps.

Take of Rose Water three ounces, Plantane Water two ounces, the juyce of Sorrel and Pomegranate Wine, one ounce and an half; Sugar of Roses one ounce: Boyl them a little, and strain them. Let him take two ounces twice or thrice in a day.

If the pain be great, you may give the Syrup of Poppy.

Let his Drink be Barley Water with Syrup of Violets taken cold.

In the progress of the Disease, you must mix other Medicines with the aforesaid, which may help to dissolve. To this end you may prescribe these following Juleps.

Take of the Syrup of Water Lillies, Apples, and of the Juyce of Purslain, of each one ounce: Syrup of Sea Wormwood half an ounce; Lettuce, Sorrel and Fennel water, of each three ounces; the Powder of Diamargariton frigid one dram: Make a Julep for three Doses to be taken twice in a day.

To these you may add restoring Opiates, Narcoticks, and the like, all which are to be varied many ways, according to the Judgment and Wisdom of the Physician.

Turpentine washed with Wormwood water, if it be given twice or thrice doth either dissolve or mature the Imposthume of the Stomach.

Let this following Fomentation be applied in the beginning:

Take of Sorrel Roots two ounces, Endive, Succory and Mallows, of each one handful; Lettuce and white Poppy seeds, of each three drams; white and red Sanders, of each half a dram; Violets and Water-Lillies, of each one pugil. Make a Decoction, adding a little Rose Vinegar. Let the Stomach be fomented warm therewith.

Or make one with the distilled waters of Lettuce and Water-Lillies, with a little Vinegar and Powder of Triasantaloni.

After Fomenting, let the part be anointed with Oyl of Roses and Violets mixed, or with this following:

Take of Oyl of Roses one ounce and an half; Oyl of Violets and Rose Vinegar, and of the Juyce

Juyce of Sowthistles, of each half an ounce : Boyl them to the consumption of the Juyces ; then add of red Sanders one dram, red Roses half a dram, Lavender and Camphire, of each half a scruple : as much Wax as will make an Oyntment.

Cataplasms in the beginning are not good, because they burden the part with their weight, and by retaining the heat, increase the Inflammation.

In the declination, when the Tumor is resolved, which is chiefly to be desired, you may apply a dissolving Fomentation, made thus :

Take of Flowerdeluce Roots two ounces, the Leaves of Mints, Marjerom, Pennyroyal, Sea Wormwood, of each one handful ; Annis and Fœnugreek seeds, of each two drams : Grains of Kermes one dram : the flowers of Stœchas, Rosemary, Chamomel, of each one pugil : Make a Decoction, adding in the end a little white Wine. With this foment the Stomach.

After fomenting, anoint the part with Oyl of Wormwood, Nutmeg, Spike, and the like ; of which you may make an Oyntment with a little Wax and Powder, Orris Root or Cinnamon. But Emplaisters and Cataplasms, because they burden the part with their weight, are not here good.

But if the Tumor tend to Suppuration, foment the part with the Decoction of the Flower of Chamomel and red Roses : Then apply this following Cataplasme :

Take of Althæa Roots two ounces ; Brank Ursine and Roses, of each one handful : Boyl them well, and beat them together ; then add of Barley-meal, Linseed, Fœnugreek, and Powder of Chamomel, of each half an ounce : white and red Sanders, of each two drams, with Oyl of Roses and Chamomel. With a little Hens Grease make a Cataplasme often to be renewed.

After the Imposthume is broken, let the Ulcer be cleansed with Hydromel, given in a small quantity : To which you may add the Manna of Frankincense, according to Galen's Precept. Or give it with Barley-water with Sugar of Roses in the beginning, in time of heat.

When the Ulcer groweth old, of what cause soever it come either from sharp corroding humors, or burning Medicines or Poyson, Broths of cool Herbs and drying, of Barley, Almonds and Sugar, of Roses, or new Milk with Sugar, and a little Honey, are very good. At length, Chalybate milk and Iron water for ordinary drink, or water wherein a piece of Bole-Armenick or Terra Sigillata hath been steeped, is very excellent. To which you may put a little sharp Wine, if there be but a little heat in the part.

Then give this Apozeme :

Take of Barley one pugil ; Scabions, Agrimony, Burnet and Maiden-hair, of each half a handful ; Melon seeds two drams ; red Roses dried one pugil : make a Decoction to one pint, in which dissolve three ounces of Syrup of dried Roses. Make an Apozeme for four Doses to be repeated often.

Also the Decoction of China is excellent for internal Ulcers, when there is no Feaver, taken twenty days more, sweating gently, for so the Ulcer will be dried by degrees. But if you fear a Consumption, boyl the China Root aforesaid in Chicken Broth, or Pidgeon Broth with the aforesaid Herbs, and Barley made clean.

In an old Ulcer, the drinking of Mineral Waters, either of Vitriol, Iron, or Allum, for a Month together, are very good.

In the whole time of the Disease to keep the Stomach clean, use gentle Purges, as Rhubarb, Tamarinds, Myrobalans, Syrup of Roses, and Diacatholicon taken once in a Week.

Lastly, To heal up the Wound, use these following :

Take of Bole-Armenick, Terra Sigillata, red Coral, and Blood stone wash'd all in Rose-water, of each one dram ; Sanguis Draconis, Gum Arabick and Tragacanth, of each half a dram ; white Poppy seeds bruised and parched, Hypocistis, Frankincense and Sarcocol, of each one scruple ; Sugar of Roses one ounce : Make a Powder, of which take a dram in Plantane Water or Conserve of Roses every day.

Or make an Opiate of the same Powder with Conserve of Comphry and Roses, Syrup of Quinces and Myrtles. Or you may make Troches of the same Powder, with the Mucilage of Fleabane seeds, or Gum Tragacanth. All which the Patient may use by turns, lest he grow weary of the same.

Outwardly, to close the Ulcer, you may apply to the Stomach a Fomentation of the Decoction of Wormwood, Roses, Pomegranate peels, Galls, Pomegranate Flowers, Myrtles, Frankincense, Mastich, or the like. And lastly, Anoint the part with an Astringent Oyntment, or apply an Astringent Emplaister.

The End of the Ninth Book.



THE
TENTH BOOK
OF THE
PRACTICE
OF
PHYSICK.

Of the Diseases of the Intestines, or Guts.

THE PREFACE.

THE Perfection of all Nourishment consists in these three Operations, To Ingest, Digest, and Egest; that is, To take in, Concoct, and send forth. The first respects the Appetite; The second the Concoction, and belongs to the Stomach: But the third respects the Intestines, whose Office of Egestion or sending forth being moderate, and according to the Rules of Nature brings great benefit to the whole Body. On the contrary, If it be defective, as in the binding of the Belly, or abound as in divers Fluxes, there arise divers grievous Diseases. Moreover, the retaining of superfluous things doth cause Cholicks, Iliacks, and Hemorrhoids. And finally, putrefaction in the Guts doth not only produce Fluxes, but Worms. That all these may be severally Explained, this Book shall contain Eleven Chapters; The first is of the Cholick: The second of the Iliack Passion: The third of Binding of the Belly: The fourth of Lienteria or Coeliack Diseases: The fifth of Diarrhæa: The sixth of Dysentery: The seventh of Tenesmus: The eighth of the Heptick Flux: The ninth of the Worms: The tenth of the Flux of the Hemorrhoids: The eleventh of the Pain of the Hemorrhoids.

Chap. I. *Of the Cholick.*

THe Cholick takes its Name from the part affected, which is the Gut called *Colon*; which is long and winding, ordained for receiving the Excrements of almost all the Body; these Excrements retained too long, use to cause this pain.

CAUSES. Therefore the Causes of the Cholick are excrementitious Matter, which by distending, pricking or corroding, can make a Solution of Continuity; and these are either Winds or Humors.

Winds are bred of Crudities, or a cold distemper of the Stomach or Intestines; and if they be not

not sent forth by reason of the hard excrements, or other things that obstruct the Intestines, they are in great plenty shut up in the Guts, especially the *Colon*; and makes a very violent pain.

Also gross humors, cold and flegmatick, being fastened upon the Tunicles of the Guts cause the same pain both by gnawing, if they are sharp or salt; as also by cooling the part, which by consequence must suffer Constriction and Divulsion, as *Galen* speaks of himself, that having had a great Fit of the Cholick did void glassy flegm that was actually cold; and by producing Wind which is easily raised from a gross, slimy, and slow humor, by a weak heat.

Lastly, Cholerick and sharp humors; as also a Melancholly and sour by pricking and twitching the Guts, make these pains: but we may doubt in the action of these Causes how the Cholick should be sometimes more violent, sometimes more remis, since the same matter remaineth in the Intestines. To which doubt we thus answer, That the matter doth sometimes lie quiet, and then it causeth none or very little pain: but sometimes it is moved and stirred up by divers Fermentations which happen among the humors, as in an Epilepsie, the Fits of the Mother, and Agues.

But you must observe diligently, that those winds or humors do not only remain in the Cavity of the Guts, for then were they easily excluded by evacuating, cleansing, and carminative Medicines, but for the most part they are fixed to the very Coats of the Guts, whence it comes that they are not so easily taken off; but they make a long and a stubborn Disease which will not easily be cured. So thick Flegmatick and Melancholick humors do flow by degrees through the Veins of Guts into their substance, and do not presently cause pain; but till they so increase that they provoke Nature to expel them, and so being moved they cause pain; or send out Vapors, which being included in the Tunicles of the Intestines, do stretch and extend them, and finding no passage, cause a long pain. And Choler being after the same manner spread and sucked into the Veins of the Guts and the Tunicles thereof doth stir up sharp pains which use to belong, because the Choler is very hard to be pulled from the substance of the Guts.

There is another kind of cholerick Cholick, which turns into a Palsie, not known to the Ancients, which comes of a cholerick humor, not in the Gut *Colon*, as the former, but suddenly sent into the Membranes of the Abdomen, and it is carried thither from the Cystis, or bladder of Gall, or the Mesentery in the Crisis of continual Feavers, or from great anger, or some other external cause, when by reason of Obstructions it cannot be sent by the common passages, but by a preposterous motion it is presently sent to the aforesaid Membranes of the Abdomen, hence comes a cruel pain like that of the Cholick, which neither by Clysters, Fomentations, or other Medicines can be cured; but continueth many Months, by which means the Body consumeth: sometimes it is like an intermitting Fever, sometimes and often like a continual lingring Fever: and at length when the pain begins to cease, there is a Palsie, by reason the humor gets by degrees into the back by the Membranes of the Abdomen: This Palsie doth trouble the upper parts most; but the Thighs and Legs commonly are pained, in some they are wholly resolved and made numb, because the Choler being light flieth to the upper parts: Sometimes it gets into the Brain, and begets Epileptick Convulsions, from whence death commonly ensueth.

There are other causes of the Cholick, but less usual; namely, stones bred in the Guts and knots of Worms which stop them: the Compression of the Guts from Tumors in the adjoining parts, or narrowness by reason of Inflammation, and other Tumors of the Intestines, or Contorsion, or twisting of them by reason of Wind which is the way to the Iliack Passion; sometimes also the matter causing the Cholick is Poysonous and Malignant, and makes a Pestilent Cholick; as *Paulus Aegineta* reports, That a Pestilent Cholick in *Italy* infected most of the Roman Provinces. Finally, all hard Bodies by obstructing and distending the Guts may make a Cholick, as stones bred there, many Cherry-stones swallowed, hard Cheese, and the like: *Platerus* reports, That a certain Governour long labouring of the Cholick with Convulsions, after the use of Clysters, voided a great quantity of hard Cheese which had a long time stuck in his Guts, because before his sickness he had eaten immoderately thereof.

The External Causes are cold Air, which constringe and indurate the Belly; or too hot Air, by which the Excrements grow hard, and lose their moisture; the use of meat and drink not agreeing with the Constitution, as raw Fruits, and binding gross Meats, and hard of digestion, too much rest, and immoderate sleep, unseasonable exercises, immoderate venery, and other external causes which disturb the Concoction of the Stomach.

DIAGNOSTICK. The knowledge of this Disease generally is easie: For the first pain is very sharp, for if it be light it cannot be called a true Cholick from the Opinion of *Galen*, lib. 6. de loc. aff. cap. 2. and it is sometimes moveable, sometimes more in one place than in another: sometimes in the Region of the Liver, sometimes of the Spleen, Stomach, Reins: sometimes above, sometimes beneath the Navel, and oftentimes it is most upon the left side; in which as, *Baubin* first observed, there is a little straightness; for when the Excrements in the upper and widest part of the Colon grow into hard lumps according to its capacity great, and then by Wind are driven into a straighter part, they must

must needs pass with much pain, in which symptom the Cholick, and the Spleen, and the Stone are not distinguished but by comparison of other signs; for sometimes the pain is as of an Auger-boring, or a Stick fastened, more fixed in some part. When the Stomach containeth, there is vomiting of Flegm, Choller that is green, or the like. After Meat the pain is greater, because the Stomach being filled compresseth the Intestines. The Belly for the most part is bound, so that the Patient cannot so much as break wind, and if any thing be voided either naturally or by Art, it is for the most part windy, and like Cow-dung, with water at the top, because it is most Flegm which useth to be so. Sometimes the Belly is so bound, that in the height of pain, purging Medicines that are very strong, will not work.

The Signs of the Causes are thus to be distinguished:

If the pain come of Flegm, it is not so great, unless it be mixed with wind which cannot get forth of the places wherein it is contained: for then the pain is very great; sometimes in one part, as if it were bored through the wimble or stick; sometimes in many, if the wind do remove, the Patient is better for hot, and worse for cold things. He used a Diet formerly which bred flegm, his water is sometimes more crude and white, not always, which deceiveth young unexperienced Physicians, and sometimes in a flegmatick and flatulent Cholick, the Urine will be yellow and reddish, by reason of the extraordinary pain which doth inflame the Spirits and Humors contained in the Veins and Arteries. Which *Avicen* wisely observed, *Fen. 13. Lib. 3. Tract. 3. Cap. 11. Let no man be deceived (saith he) to think by the foulness, inflammation, and redness of the Urine, that therefore the Disease is hot; for that is common to all Urines.*

If the Cholick proceed of wind, there will be a stretching pain, and a swelling of the Belly: the Patient perceiveth a rumbling of the Belly and much wind, and he is better when he breaketh it: he used a Diet to breed it, as unreasonable drinking of cold water, often use of Pease, Rapes, Chesnuts, Sallets, Fruits, and the like. And if the wind be contained in the Cavity of the Guts, the pain is moveable, not in one place, and is sometimes greater. But if it be in the Coats and Tunics of the Guts, the pain is fixed because the wind cannot move, and it is constant because it cannot get forth.

If the Cholick come from a sharp and cholerick humor, it is most grievous, pulling, and pricking, there is heat, thirst, and often a Fever, the Urine is very cholerick. It is worse for hot Meats and Medicines, and better for cold. By sending forth of Choler the disease is diminished, and there went before a Diet breeding Choler.

The pain of other parts under the Navil are easily distinguished from the Cholick, by their proper signs, except the Stone, whose signs are so like with those of the Cholick, that very skilful Physicians have been deceived by them: As *Galen* himself was, as he confesseth 2. *de loc. aff. cap. 5.* when he was troubled with the Cholick he thought that he had the Nephritis, and that a stone was fastened in one of the Ureters till the humor was purged away, and the pain ceased; after which he found it to be the Cholick.

But by these following signs these two Diseases may be plainly distinguished, if they be well observed.

First, The Nephritis, or pain of the Stone, is fixed in the Reins, and comes from thence to the Testicles, according to the length of the Ureter: But the Cholick is moveable, and girts about the middle of the Belly like a girdle.

Secondly, The Cholick increaseth after Meat by reason of the compression of the Intestines from the full Belly: but the Nephritis increaseth not, but rather decreaseth, because some of the Nourishment is carried to the Reins, which doth something assuage the pain.

Thirdly, In the Cholick, the vomiting is more vehement, and the Body is more bound, because the Colon lieth in the bottom of the Stomach, and the Intestines being stretched, or much provoked, do constringe themselves that they may expel what is noxious. But both the symptoms are common to both Diseases, so that you can hardly know their intension and remission, because a strong Nephritic pain may cause a greater vomiting and astriction of the Belly, than a weak Cholick.

Fourthly, In a Cholick there is more ease found after Evacuations than in a Nephritis.

Fifthly, In a Nephritis or the stone, the Urine is first clear and thin; afterwards there is a sediment, and at length sand and little stones are voided. But in the Cholick the Urine is thick from the beginning.

PROGNOSTICK. The Cholick for the most part, if it be gentle and little, and not long, nor in one place constantly, but intermitting and not binding the Belly, is curable, and without danger. But if the pain is very great, and fixed in one place, not intermitting; and if the Belly be bound that nothing can get forth, with great watching, and if vomiting follow, Hiccoughs, doting, and coldness of extreame parts with cold sweats, it is deadly.

A stubborn Cholick coming of sharp and Cholerick Matter degenerateth into other grievous Diseases; as Arthritis, Epilepsie, or Paralysis, which is most usual.

An Epidemical Cholick, which is contagious and pestilent, is commonly deadly.

CURE. The Cure of this disease is divers, according to the variety of the Causes.

And first, there is the same cure of a flatulent and pituitous Cholick, which begins with an Emollient Clyster, after which followeth one Carminative and discussing, as was prescribed in the *Dolor Ventriculi*, from the like cause, which must be repeated twice, thrice, or four times in a day, till the pain be gone; and if he go not to stool in one or two Clysters, as sometimes happeneth, you must give a sharp suppository. In one of the aforesaid Clysters, you may do well to add four ounces of the *Aqua Benedicta Rulandi*.

Or two or three drams of Coloquintida boyled in an Emollient and Carminative Decoction.

If Clysters will not give ease, you must not stay too long upon them, but use some gentle Medicine. It hath been observed that when a sick man had taken three Clysters without benefit, that another Physician came and gave but one ounce and an half of Manna, with two ounces of the Oyl of sweet Almonds in the fat broth of a Hen, and cured the Patient. But in a pain that comes from gross Flegm you must give stronger Medicines.

Afterwards, Fomentations, Oynments, Baths, Emplaisters, and the like, are good, which were declared in the Cure of the *Dolor Ventriculi* of the same cause, to which you may add some specific things, which are fit for this Disease.

Wash the Guts of a Wolf in white Wine, then dry them in an Oven in an Earthen Pot, till they may be powdered. Let the Patient take a dram thereof in white Wine, and he will be presently cured.

Boyl fair Water, and add to it the fourth part of Oyl, and some gross Pepper; let him take three or four Spoonfuls as hot as he can endure it, and the pain will be instantly gone.

Take of the best Aloes one dram: Laudanum four grains: Diagridium six grains! Mix them and make six Pills gilded: Let him take them at a convenient time. They take away the pain after one hour, and then purge out the noxious humor.

Instead of these you may give *Diaphœnicon* and *Philonium Romanum*, as is prescribed in the Cure of the pain of the Stomach, *Hip. Lib. de intern. aff.* propoundeth a Purge of Purlain, and Juyce of Poppies.

Six ounces of Oyl of sweet or bitter Almonds, do assuage pain, and cast the Matter cleaving to the Intestines downwards.

If you mix it with these things following it will be better.

Take of Oyl of sweet Almonds, or Sallet Oyl for poor people, four ounces; Spanish Wine one ounce and an half; Syrup of Poppy one ounce: Mix them for a Potion.

Allo of sweet Almonds mixed with Manna in fat Broth as aforesaid doth ease pain, and evacuate the Matter offending.

One dram of Annis-seeds powdered and given in Wine, doth first assuage, and the second time it is given, quite takes away the pain; applying at the same time a Cataplasm of Turpentine, three ounces laid on with Stuphes sprinkled with Pepper and Sanguis Draconis finely powdered, of each one dram.

Galbanetum Paracelsi is good to discuss the Humor if the whole Belly be anointed therewith. The description is in *Crato* thus:

Take of Gum Elemi, Ivy, Galbanum, Oyl of Bayes, of each equal parts: distil them in Sand with a Retort; keep the Liquors asunder, first the Water, then the clear Oyl, then the thick Oyl like Honey, which you must use first.

Take of Calamus Aromaticus one ounce: Galangal three drams: the outward yellow of the Orange peel four ounces: Cinnamon, Annis, and Fennel seeds, of each three drams, Cummin seeds six drams: Janniper berries green half an ounce: Bay-berries three drams. Powder them finely, and infuse them in six pints of the best Spanish Wine in a hot place six days; then distil them in Balneo Mariæ. The Dose is one ounce after Evacuations.

You may with good success apply to the Belly Gum Garagma, and Tacamahacha; but first let a great Cupping-glass be applied to the Navil.

Although you apply not the Plaisters, yet you must not forget to Cup; which as *Galen* saith, doth discuss pain that comes of wind like an Enchantment.

If the disease last long, you may cure it with the decoction of Guajacum continued for many days; Purging sometimes, and giving often Clysters. And if it come of glassy flegm, let Guajacum be boyled in Wine, as *Amatus Lusitanus* used it with good success, *Curat. 32. Cent. 1.*

After the pain is allayed, use an Apozeme to purge flegm for the carrying away of the reliques, or instead thereof, the decoction of an old Cock made with incising, attenuating, and purging things. Or that excellent Julep prescribed in the Cholick of the Stomach.

A Cholerick Cholick is cured by Emollient Clysters, and such as temper the acrimony of the Humors.

Let the Belly be Fomented with an Emollient Decoction, which is Anodine ; or which is better make a Bath of the same.

Also Cataplasms made of Barley and Linseed Flower, boyled in Oyl of Chamomel, applied to the bottom of the Belly are good.

As also a cooling Epithem to the Liver, made thus :

Take of the Juice of Endive and Succory, of each half a pint ; the Juice of Lettuce, and Rose Vinegar, of each two ounces : mix them, and make an Epitheme.

Give Juleps of Poppy, Lettuce, Endive and Sorrel Water, with Syrup of Violets, Apples, and Lemmons.

If the Pain be urgent, come to Narcoticks.

When the pain is mitigated, give the infusion and expression of Rhubarb in Succory Water with Syrup of Roses often, till all the filth be evacuated.

If this be too gentle to eradicate the disease, give *Mercurius dulcis* which being sometimes given with some Purging Diagridiats, doth finish the Cure.

They who are not to take *Diagridium*, may take *Mercurius Dulcis* alone made into a Pill with Conserve of Roses, drinking after it the infusion of Senna with Rhubarb, adding a little Manna and Syrup of Roses.

After this you may give your sharp Vitriolated Waters.

When the pain is violent, fly to Baths and Laudanum, to which you may sometimes mix Purgers, but in a great quantity ; because their force will be hindred by the Laudanum.

Galbanetum Paracelsi, although hot, is fit to discuss the Humor if all the Belly be anointed therewith : it is described formerly.

Sometimes Bloud-letting is good where there is fear of a Feaver by the heat of the Bloud : and if the Feaver be begun, do it presently.

Where there is a great thirst, give cold water, as *Galen* teacheth, *lib. 12. meth. cap. 7.* And *Amatus Lusitanus* saith, That he Cured one presently with it. And *Septalus* shews in two Stories in the Seventh Book of his *Practical Animadversions*, That he hath given the same, and taken it with very good success.

For the Cure of that Cholick which turneth into a Palsie, after the Belly is loosed with many Clysters, and the first ways being made open by a Purge, put the Patient into a warm Bath made of an Emollient Decoction, twice, thrice, four or five times in a day, that the sharpness of the humors may be allayed, and the pores of the Membranes opened.

The day after let the Humor be purged with a fit Medicine ; then let him be bathed again, and if his strength will endure it, let him do it every other day, till the humors are purged and the pain gone and the Patient Cured.

In the mean time let the Clysters be continued, especially those made of Milk are best to assuage pain, to which you may put Cassia, Oyl of Violets and Lillies.

Let the Belly be often anointed with Oyl of Chamomel, Dill, sweet Almonds, Lillies, or with fresh Butter.

Then let him use Whey and sharp Waters.

And Lastly, When the disease is of long continuance, you may use those things which were prescribed for the Cure of Hypochondriack Melancholy.

Nor must you omit Phlebotomy from the beginning of the disease before Purging, and it must be often repeated if the bloud be evil, or the pain come of a Catarrh any ways.

Finally, All the Medicines mentioned in Chollerick Cholick may here be applied, which if it avail not, some Physicians use this following Potion, which though it be sordid and not fit for men well educated, yet they say it cureth presently.

Take of Horse-dung one ounce: break it in pieces, and infuse in it one pint of Poppy-Water with eight or ten drops of Spirit of Vitriol: strain it gently, and divide the Liquor into three Doses, for the time of the violent pain.

But if it turn into a Palsie, you must anoint the *Spina* or Back-bone and the Paralitick parts with a Resolving and a Nerve-Corroborating Balsom if there be no Feaver ; but if there be, bind Wooll dipt in Oyl, or some digesting Oyntment, to the Paralitick parts, taking heed of Cold, by which the humor will be fastened to the part, and the breathing of it hindred.

Galbanetum Paracelsi is best, if it be applied to the parts aforesaid, and the Navel.

CHAP. II. Of the Iliack Passion.

ILEOS, or *Iliack Passion*, took its name (as some say) from the Gut *Ileum*, which chiefly is affected in this Disease; although the other thin and sometimes thick Guts are capable of the same: Or rather from *Eilesthai*, which signifieth to be rowled and girt about; therefore the Latins call it *Volulus*, or *Convolvulus*, because the Guts in this disease seem manifestly to be rowled about, and to be moved upwards: it is also called *Kordapsos*, because the Guts, if you lay your hand on them, seem to be like a stretched or twisted cord.

The Barbarians call it *Miserere mei*, because it is a miserable Disease, and commonly deadly, and therefore needs Divine Commiseration.

The Iliack Passion is a preposterous motion of the Intestines, in which the Belly is always bound; and the Excrements which should be carried downwards, are brought to the Stomach, and cast out by vomiting.

It is known that the Intestines have a natural motion by which the Chylus and Fæces are by degrees carried downwards, which is called *Peristalticus*; this motion is by the Orbicular and transverse Fibres which contract the Intestines, and is compared to the motion of Earth-worms which move the parts of their bodies successively. And this motion is sometimes inverted by preternatural Causes, as when the Fibres of the Intestines which ought to be contracted from above downwards, are contracted upwards; and whatsoever is in the Guts is not sent towards the Belly, but towards the Stomach, and then is this Iliac Passion. We observe something like this in Vomiting; for when the Fibres of the Oesophagus contract themselves from the upper part towards the Stomach, the Meat is swallowed down; but when by an inverted order they contract themselves from the part beneath upwards, there is vomiting. This Peristaltick inverted motion comes from the vehement stirring up of the Expulsive Faculty of the Guts, which when it cannot throw downwards the superfluous Excrementitious matter, doth by a violent motion cast it upwards. This motion is sometimes so violent, that not only Chyle, and Wind, and excrementitious humors, but the Fæces also and Excrements which should be sent out by the Anus are thrown forth by vomiting; so that Clysters and Suppositories also are snatched up and vomited out: So *Matthew de Gradi* reports of a Girl of 12 years old, who in this disease for three days together did not only vomit up Dung and Clysters, but also a long Suppository a short time after it was administered unto her; and when another Suppository was tyed to her Thigh, that was presently broken off, and vomited up with a piece of the thred at it: And when, thirdly, a Suppository was tyed with four strong threds as before, that also was broken off, and vomited up with the part of the threds: And at length when the Mother, as desired by the Physicians to administer another, it was drawn upward with so much violence, that she was constrained suddenly to draw it out lest it should be again vomited up. There are the like stories in Authors, which for brevity sake we omit.

CAUSES. This stirring up of the Expulsive Faculty of the Guts comes from divers Causes: The chief is Obstruction; therefore whatsoever doth so violently obstruct the Guts that nothing can descend, doth beget this disease: for after the Faculty hath long laboured to throw out superfluities the ordinary way, and is frustrate of her intention, desiring to satisfy the necessity of Exclusion, she takes another course, and by a preposterous motion drives them upwards, and vomiteth them out.

The Causes obstructing are hard Dung long retained, gross vapors gathered in abundance into the Guts, and violently distending them; Inflammation, and other great Tumors, which wholly shut up the internal Cavities of the Guts, and the circumvolution of it, so that it is as it were tyed in a knot, which often happeneth in the Hernia or Rupture, and also in the Cholick, after which often follows this *Ileos*, because the Intestines being stretched with wind do rowl together, and sometimes knit a knot.

The more unusual Causes which do provoke the expulsive faculty that are constrained to alter their motion are great Ulcers, or sharp humors which twitch the Guts; for when the Fæces or other humors going downwards, do touch the ulcerated part, they so prick it that the faculty is provoked not to suffer so noxious a thing to pass, but driveth it upwards with violence; which motion the other Intestines stirred up by sympathy, do follow till the noxious Matter goes to the Stomach, which following the same Motion, by the help of the aforesaid faculty, drives it forth by vomit.

SIGNS. The signs of the Iliack Passion are partly common to those of the Cholick, and partly proper.

The common signs are, pain in the Abdomen, swelling and puffing up of the Belly, a bound Belly, loathing of Meat, Nausea, Vomiting, want of Rest, difficulty of Breathing and Pissing.

Those which are proper and peculiar to this Disease, are a sharp pain and most violent, puffing up

and very violent distension, an eminent hard Tumor in the Hypogastrium, a total suppression of seerage, so that nothing is voided that way. In progress of the Disease, there is irregular vomiting, first of Choler, then of Flegm, and Chylous Matter, and at length of Dung, or rather of a Matter like it, of corrupt and stinking Meat, for the Fæces are seldom sent upwards; when they are near death, there is abundance of cold sweat, refrigeration of the extreame parts, trembling of the Heart, disturbance and fainting.

Galen in Comment. *Aph.* 10. Sect. 7. affirms, that the proper and inseparable signs of this Disease is not to go to Stool at all. But *Hippocrates* seems to affirm the contrary, *Epid.* Sect. 2. Text. 7. in an History of a Woman thus affected, which dwelt at *Tisamen*, saying there were thin, few, and crude dejections. To which difficulty we answer, That in the beginning of the Disease, some Stools may be from the Fæces contained beneath the Gut affected, which by Nature or Art may be excluded before all the Intestines consent and lose their proper and Natural faculty. But when the Disease is confirmed, and the Peristaltick motion of all the Guts is inverted wholly, there is nothing more sent downwards.

The signs of the Causes are these: If *Ileos* come from Inflammation (which often happeneth) the Disease is most acute, and comes quickly to the height, there is an intense Feaver, a most vehement pain, cholerick Vomiting, and Flegmatick do soon appear, and Fæces and Dung do presently appear, and other deadly signs before-mentioned.

If it come from the Fæces indurated, there went before it a constriction of the Belly for many days, and in the beginning there is no pain, but afterwards there is, the Disease is of longer continuance, nor is so acute as that which comes from Inflammation, neither is the pain so great, nor the Feaver so strong, and sometimes there is none.

If it come from wind or flegm, it followeth for the most part the Cholick: and signs of the Cholick of Flegm and wind went before, which are laid down in the Chapter foregoing.

As for the Prognostick. Every *Ileos* is dangerous, but one more than another. That is most deadly, in which first there is cholerick, then flegmatick, and after stinking vomiting; and *Galen* 6. de loc. aff. cap. 2. saith none of these escape; but Experience teacheth that some do, as when the Disease comes from retension of the Fæces, or *Hernia Intestinalis*, or Rupture in the Guts.

They who have this Disease with the Strangury, die within seven days, except a Feaver coming, the Urine be more plentifully voided *Hip.* *Aph.* 44. Sect. 6. if the Strangury come of thick and Flegmatick humors which are plentiful in the Veins and Guts, a Feaver coming thereupon, they may be concocted, melted, and attenuated, and pissed forth, by which means the *Ileos* is cured. Although *Galen* in his Comment upon his Aphorism saith that he is ignorant of what *Hippocrates* saith here, and that it cannot be confirmed by Reason and Experience.

If symptoms be remitted, and either Medicines or Meat taken at the mouth, pass through, there is hope of recovery.

CURE. The Cure of this Disease, is to be varied according to the difference of the Causes. And first, if the obstruction comes from the Fæces indurate, or from gross and slimy Flegm, you must use Emollient and Laxative Medicines, both internally and externally.

First then, give Clysters of the Decoction of *Althæa*, *Mallows*, *Violets*, *Chamomel*, and *Melilot*, with *Lin seed* and *Fœnugreek seed*, or of common Oyl to a pint, in which you may dissolve the third part of Butter, or of the Broth of a Sheeps Paunch, in which dissolve Butter, Honey, and *Salagem*. The which Decoction, if there be wind (as commonly there is) it is good to put Carminatives and Discessers.

After the matter is somewhat mollified with these Clysters, you must give first some gentle Purges, then longer, and last the strongest.

In the mean while you must apply Fomentations and Liniments that are Emollient to the whole Belly, and continue them long. The Paunch of a Gelding warmed in hot water, applied to the Belly, is good; but mollifying Baths are better, especially if they be made of Air only.

Also you may give inwardly the Oyl of sweet Almonds either alone or with white Wine. To which if the pain be great, you may add the Syrup of Poppies, as was shewed in the cure of the Cholick.

And lastly, If there be vehement pain, and much flatus, you may give those other Medicines which are prescribed in the cure of the Cholick, nor omitting Purges, which being opportunely given, take away the cause.

That which comes from Inflammation of the Intestines, is to be cured by often Blood-letting, if strength permit, both in the Arm and Foot, and by applying of Cupping-glasses with Scarrification to the Groins. Also Emollient Clysters and cooling are to be given, made thus:

Take of *Althæa* Roots two ounces: *Mallows* and *Violets*, of each one handful: *Gourd seeds* half an ounce: *Line* and *Fleabane seeds*, of each two drams: *Water Lillies* and *Roses*, of each one pugil: *Chamomel Flowers* half a pugil: make a Decoction, in a pint whereof dissolve two ounces of Oyl of *Roses*; *Cassia* one ounce. Make a Clyster, and in progress of time add Oyl of *Violets* and *Chamomel*.

The

The aforeſaid Emollients muſt be boyled in Oxycrate.

Or give new Milk with a little Sugar, and the white of an Egg, or the Mucilage of Fleabane ſeeds one ounce, to aſſuage pain.

Or, you may make a Clyſter of oyl of ſweet Almonds, Barley, Cream, ſtrained from the decoction of it, adding a little freſh Butter and Sugar.

A Clyſter may be made of ſimple Oxycrate, and be every day given, which is excellent againſt Inflammation of the Guts.

Anoint with Oyl of Violets, ſweet Almonds, and Chamomel, with Mucilage of Linſeed, Fœnugreek ſeed, and Quinces, with Axungia of Hens and Ducks, and ſweet Butter.

Alſo make a Fomentation of the Decoction of thoſe Simples which were preſcribed for a Clyſter.

Alſo Foment in the beginning with Oxycrate, and after let the Simples aforeſaid be boyled in Oxycrate.

And make a Cataplaſm of the reſidue of thoſe things in the Decoction with Barley Meal Fœnugreek, Linſeed and Butter, with the Axungia's and Oyls aforeſaid.

Alſo a Bath of Warm Water, in which cold and Emollient things have been boyled, is moſt convenient.

After bleeding give two ounces of Oyl of ſweet Almonds to appeaſe pain, and if it be very great, uſe Narcoticks.

If there be no vomiting, you muſt provoke it with a draught of warm water with Oyl of Violets, for ſo the upper parts will be purged, and the Humors will be revelled from the part affected. In the whole time of Cure, you muſt give Juleps and Emulſions preſcribed in the Inflammation of the Stomach.

Let his drink be Barley Water: and in the beginning let him abſtain from all Nouriſhment for twenty four hours, that ſome of the Matter may be conſumed; then give him Chicken Broth. This Diſeaſe is to be attended with diligence, for it is for the moſt part deadly.

The chief buſineſs in the cure is by abſtinency; and this is taken from the example of thoſe that are wounded in the Guts, for they are almoſt ſamished for forty days. Therefore let men in this diſeaſe for four or five days, take only three ſpoonfuls of broth every day, that vomit may be hindered which doth encreaſe the diſeaſe.

Moreover, Food bringeth no comfort to the ſick, for it turneth not to Nouriſhment, but is plainly corrupted, and the Chyle which goes from the Stomach into the Guts, is mingled with the Excrements retained, and encreaſeth vomiting.

He may drink more freely, becauſe it goes more eaſily to the Liver, and may be fit to oppoſe the Diſeaſe, if it be well tempered Oxycrate, and in a ſmall quantity.

Laſtly, it comes ſometimes but ſeldom, from the circumvolution of the Inteſtines; and this either from Wind which tortureth them; or from a *Hernia* called *Interoceles*, or Rupture.

That which comes from Wind is cured by the ſame Medicine which cures the flatulent Cholick. But if after long uſe of the Medicines the Belly will not be opened, but all things taken are vomited up, that there is little hope of health, the laſt Remedy muſt be uſed, which *Hippocrates* propounds 3. *de morbis*, namely, That a pair of Smiths Bellows be applied to the *Anus*, and that they blow into his Belly. Then give an Emollient Clyſter with Troches of Alhandal to bring out the ſæces. This is good not only againſt the *Ileos* from contorſion of the Inteſtines, but in that which comes from a grievous obſtruction, for by dilating the Guts it takes away the obſtruction. *Amatus Luſitanus*, *Chyrat. ult. Cent.* teſtifieth that he cured one deſperate by this means: as alſo *Epiphanius Ferdinandus* in his *Physical Hiſtories*, *Hiſt. 74.* reports that the ſon of *John Altimar* of *Naples*, a moſt expert Phyſician, was ready to die of this diſeaſe, and taken as it were from the Graves mouth by this means. But *Aurelian* diſalloweth it, becauſe the wind coming from the Bellows may much hurt with its cold. But this may be avoided if the Bellows be filled with wind by the fire.

Paracelsus alſo propounds another unuſual Medicine, by which he boaſteth that he cured many at death's door, namely, by drinking three pound of Quickſilver in Water alone, for with its weight it doth untie the Guts, and open, and ſend down the hard excrements; which remedy is commended by others, who ſay that it may be taken without harm.

But we may well fear ſo great a quantity, leſt it extinguiſheth the native heat with its coldneſs, and coagulate the bloud in the Veins; therefore in a deſperate caſe it is better to give a leſs quantity. Some give two ounces in a rear Egg, and think good to repeat it if the firſt Doſe do not ſucceed well; but you may ſee in our Obſervations, that one ounce hath done well.

But when the Iliack Paſſion comes from the Guts falling into the Cods all the cure is to place them right, which muſt be done by the gentle hand of a Chirurgion, long fomenting the part affected, firſt with an Emollient Decoction, and Relaxing Oyls, giving often Emollient and Carminative

Clysters, so placing the Patient that his Head be low, and his Thighs high, for some having been hung by the Heels, were quickly cured.

If the *Hernia* comes with Inflammation of the Intestines, it is cured with a Fomentation of cold water. If Wind stretch the Guts, discuss with a Fomentation of Spirit of Wine. See the Examples of both Cures in our Observations.

CHAP. III.

Of Astringion, or binding of the Belly.

By Astringion of the Belly, we do not understand all kind of Suppression, by which nothing is let forth downwards, as in the *Ileos*. But only a dull and slow dejection, by which the fæces and reliques of meat are seldom, and not according to the quantity of Food thrown forth; therefore they are necessarily indurated, because of their long continuance being dried with heat, and some moisture is always drawn from them by the *Meferack*, which reach not only the thin, but thick Guts. It is a Symptom of the expulsive faculty diminished, or the retentive encreased, and it is the cause of many diseases; therefore the *Excreta* and *Retenta* are reckoned among the six things not Natural, which not keeping the Law of Nature produce divers diseases, so the Belly being bound, sends vapors to the Head, and produceth Catarrhs, and other diseases of the Brain, disturbs the Concoction of the Stomach, and the actions of other parts.

CAUSES. The Causes of this symptom are many: And first, hardness of the fæces and dryness, are not only effects, but also causes of them, because being hard, they are more difficult to be voided, and do less provoke the expulsive faculty. They become dryer and harder chiefly and ofteneft from the excessive heat of the Liver, which powerfully draws away all the moisture contained in the Intestines, and leaves the fæces dry. This is also caused by violent motion, especially riding: also by few excrements through want of food, or because they have no acrimony to prick the Intestines; as it happens in cold Meats; and when the Choler doth not go to the Guts, as we observe in the Jaundies. And lastly, many diseases of the Guts may cause this constriction, as a cold and dry Distemper, Tumors, Obstructions, Numbness of the *Anus*, and Palsie, and many others.

SIGNS. The Signs depend upon the knowledg of the Causes, which must be taken from their proper Fountains.

The hot distemper of the Liver is to be taken out of its proper Chapter. Also Tumors and other Diseases of the Guts have their proper Diagnosis or signs, and so the external Causes, as little meat or coldness thereof, riding, and the like, are known by relation of the Patient.

PROGNOSTICK. As for the Prognostick. The Constriction of the belly is more or less dangerous, according as the Cause is greater or less: For if it come of Inflammation or other Tumor of the Intestines, it is very dangerous; but from other Causes less. It useth to be contumacious and long when it comes from the fæces indurate; and thence come often Cholicks, which return after they have been cured, by reason of the new dryness of the fæces: as also because though the belly seems to have been made sufficiently soluble by purging, and many liquid Excrements are discharged, yet there remains sometimes many hard Excrements in the Guts, which breed new pains, and cannot be taken out but by many Clysters given after purging.

CURE. The Cure of this disease depends upon taking away the Causes, which are to be taken from their proper Chapters: but because it is commonly long, especially when it depends upon a hot distemper of the Liver, and dryness of the Guts: and in the mean time the belly bound brings many inconveniencies. We will speak of its Cure by its self, which is generally done by Emollients and Laxatives, made thus:

Take of *Althæa* or *Marsh-mallow* and *Lilly Roots*, of each two ounces; *Mallows*, *Marsh-mallows*, *Mercury*, *Violets* and *Brank-Ursine*, of each one handful; *Linseed* and *Fœnugreek*, of each half an ounce; *Annis seed* one dram and an half; sweet *Prunes* three pair; *Chamomel* and *Melilot flowers*, of each one pugil: boyl them to a pint and an half. Dissolve in the straining, Oyl of *Lillies* and *Litseed*, of each two ounces; fresh *Butter* one ounce and an half; *Diacatholicon* and *Diapranes simple*, of each six drams. Make a Clyster to be given as often as need requireth.

Sometimes instead of this use the following:

Take of the Decoction of *Sheeps Entrails* one pint; fresh *Butter* two ounces; *Cissi*, a *Diacatholicon* and *Diapranes simple*, of each half an ounce; red *Sugar* one ounce. Make a Clyster.

Also twice in a moneth, or thrice, you may give one pint of common Oyl alone for a Clyster.

And because Nature will grow dull by too much use of Clysters, and at length will never officiate that way, but when she is provoked but one, you must endeavour to mollifie the Belly with other means.

For this end, sweet Prunes and roasted Apples with Sugar may be taken one hour before dinner, as *Galen* sheweth 2. *de facult. alim. cap. 31*. For if they be taken immediately before dinner, they will not work. Or take Chicken Broth or other Broth, in which have been boyled Beets, Borrage, and some Apples, or one spoonful of Oyl of sweet Almonds newly drawn without fire, with as much Syrup of Maiden-hair; or two spoonfuls of the Syrup following:

Take of the Mucilage of Fleabane seeds, and of Quinces drawn with Mallows Water, one pound and an half; white Sugar one pound. Make a Syrup according to Art.

That the Prunes may work better, let him drink half a glass of *Vinum Lymphatum*, or Wine and Water before, and after he taketh them; fresh Butter taken an hour before Dinner the bigness of a great Nut, and drink Wine and Water, will do the same thing.

Once in a week let him use one of these following Medicines:

Take of Cassia new drawn one ounce, Cream of Tartar one dram: Make a Bolus.

Take of Manna one ounce, or one ounce and an half: Mix it with Broth, and take it in the Morning.

Or,

Take of Oyl of sweet Almonds and Manna, of each one ounce: dissolve them in Broth to be taken two hours before dinner.

Take of Pulp of Cassia two ounces; Tamarinds and Manna, of each one ounce: the powder of Senna half an ounce; Cremor Tartari two drams: With Syrup of Roses solutive make an Opiate. Let him take half an ounce or an ounce.

Or dissolve in the Decoction of Prunes half an ounce, or an ounce of Manna: let him take it one hour before dinner as all the aforesaid, for so they will work better.

Prisans of Succory, Agrimony and Sorrel, cast into Water that begins to warm, and infused one night, either drunk alone, or with Wine, for ordinary Drink doth keep the body loose.

This following Broth doth most certainly loosen the Belly, and keeps it so.

Take of Beets and Mercury, of each one handful: Boyl them in Broth, and take it in one hour before dinner. Or,

Take of Conserve of Damask Roses with Manna and Sugar, of each equal parts, one ounce for a dose.

Lastly, a Bath or Tub with a decoction of Emollient Herbs is very profitable to moisten all the parts natural, and mollifie the Belly.

CHAP. IV.

Of the Lientery, and Coeliack Passion.

Lientery is a kind of Flux of the Belly, in which the meat is quickly sent through the Belly, as it was taken unchanged. But in the *Cæliack Passion* the meat comes forth crude and imperfectly concocted, whence it appears, that the two Diseases differ only in degrees, so that *Lientery* is referred to the act abolished, and *Cæliack Passion* to the act diminished. For although the meat is sent forth, either altogether unconcocted, or imperfectly concocted, yet these diseases are not to be referred to Concoction hurt, but rather to the Retention; for they are either ill concocted, or not at all, because they are quickly sent forth, and are not long enough retained to be concocted. Hence it is collected, That though this disease be reckoned among the diseases of the Guts, yet the Stomach is much affected, and sometimes more than the Intestines Hence *Galen* 6. *de loc. aff. cap. 2*. saith, That a *Lientery* and *Cæliack Passion* come both by fault of the Stomach and Guts.

CAUSES. Many Causes of these diseases are propounded by Authors; all which we may refer to three Heads: The cold distemper of the Stomach and Liver: The provocation of these same parts: And a great debility of the Retentive Faculty from some deadly disease.

The cold distemper generateth great plenty of flegmatick and glutinous humors, which cover and daub over the wrinkles of the Stomach, so that it cannot retain the food, Hence we may admire why *Galen* 6. *Aph. 1*. doth speak against the old *Greeks*, who called this disease *Lienteriam*, or smoothness of the Intestines therefore, because the internal superficies of the Stomach being made smoother, doth not retain the meat; whereas the Stomach doth not retain the meat till a perfect concoction be made so much by the roughness of the inward coat, as by an innate propriety of astringing. For as we must confess, that the principal cause of retention is the faculty; so also we must acknowledge, that the faculty doth want instruments fitly disposed, without which it cannot act: and therefore since the inward Tunicle of the Stomach is made rough and wrinkled, that the meat may be retained in the Stomach, it is no doubt but if that roughness be taken away while the wrinkles are filled up with Flegm, the retention of the Stomach will be hurt, so that the Food will slip away unconcocted. The like is in the Womb whose inward Tunicle is rough and wrinkled, that it may the better retain the Seed for Conception; but if it be covered with glutinous humors, it doth not retain, and the Seed presently comes forth, whence many Women are barren.

But

But let us note, That if any will strictly examine this word, he shall find that this Symptom is rather to be called the smoothness of the Stomach than of the Intestines: neither doth it comprehend all the sorts, but only that which comes from Flegm, which because it is most usual, the rest have their denomination from it.

The provocation of the Stomach and Guts is by sharp Humors which by twiching those parts stir them to send them forth too soon, as it is in the Bladder, which being pricked by Acrimony, doth often piss: Hence comes the Strangury, *Galen* 6. *Aph.* 1. saith, That by those sharp humors there is an Ulcerous disposition in the Stomach, as the *Aphtha* or Thrush is in the mouth of Children.

The great imbecility of the Retentive Faculty in great and deadly diseases often causeth a *Lientery*, as you may see in a *Dysentery*, which when nature is conquered degenerateth into a *Lientery*; the Stomach being drawn to consent with the Guts which are grievously affected, and its Faculties being overthrown; so also in Malignant Feavers there happeneth often a *Lientery*, whereby the Broth as soon almost as taken, is cast forth unconcocted; and the same is when poylonous and hurtful things are taken.

There is also another cause different from the former, which peculiarly makes a *Cœliack Passion*, namely, the obstruction of the Meseraick Veins which hinder the passage of the Chylus to the Liver; whence it must needs be cast forth by the Belly, but that this may be, it is necessary that all the Meseraick Veins, or the greatest part of them be stopped, as in Children who have the *Struma* or Kings Evil, whose Mesentery is found full of Glandules, by which the Meseraick Veins are stopped: and these continually have a Chylous and Cœliack Flux: They eat much and grow leaner till they fall into a *Marasmus*.

Aetius and *Celsus*, and many of their followers, do propound another cause of the *Lientery*, namely, a smooth and thick Scar in the Guts remaining after a long *Dysentery*, by which the mouths of the Veins being stopped, the distribution of Nourishment is hindered, and thence comes a *Lientery* which cause we cannot entertain, for then all the Guts should have been ulcerated, and the Scar in them all should stop all the Meseraicks, which is not agreeable to reason: because it is impossible that all the Guts should be ulcerated, and the man not die.

SIGNS.

The chief Signs of these symptoms do appear by what is said, for if crude meat and unchanged descend quickly and often through the Guts, it signifieth a *Lientery*; but if it be somewhat changed and seem like Chylus, it shews a *Cœliack Passion*.

The Signs of the Causes are thus gathered:

If a *Lientery* or *Cœliack Passion* come of a cold distemper and flegmatick humors, there will be sower belchings, the excrements of the Belly are flegmatick, there will be no thirst nor pain: if the Flegm come from the head, as it often doth, the excrements are frothy, and the Flux is greater after sleep; And there are other Causes which alter the head, and other Signs of a Catarrh.

If it come from irritation or provocation, there is sometimes a gnawing in the Stomach, a heat in the *Hypochondria*, there is great thirst, sharp excrements and cholerick.

PROGNOSTICK. As for the Prognostick, Thus,

Lientery and *Cœliack Passion* lasting long is dangerous, because it catcheth away the nourishment from the whole body, from whence comes an Atrophy or a Dropsie; and if it follow great and acute diseases, it useth to be deadly.

CURE. The Cure of this disease is to be altered according to the variety of the Causes that produce it.

And First,

That which cometh from Flegm may be cured of those Remedies which were propounded for the Cure of Want of Appetite coming of a cold Cause; chusing those things which are most Astringent to stay the Flux of the Belly.

Therefore you must begin with Purging of the peccant humor with Medicines made of Aloes, Rhubarb and Myrobalans.

Clysters are here of little force, while the Stomach is chiefly distempered; except an immoderate Flux do require them: and then they must be astringent and strengthening according to the Forms which shall be propounded in the following Cures.

After Purging sufficiently you must strengthen the Stomach with Opiates, Powders, Fomentations, Plasters and other Remedies mentioned in the place above quoted, in which (as I said) you must not omit Astringents, as Mastich, Citron peels, Coriander seeds, Snake weed Roots, Tormentil, Coral, &c.

And besides others, the Opiate following which is greatly commended by *Amatus Lusitanus* is convenient, by which he saith he cured an Old man, after many other Medicines failed.

Take of Conserve of old Roses six ounces; of the best Treacle six drams; Syrup of Quinces as much as will make an Opiate, of which let him take half an ounce in the morning, not drinking presently after.

That

That which comes of Choler is to be cured by those Remedies which were laid down against cholerick vomiting; as also by those which shall be described in the cure of a cholerick *Diarrhœa*.

That which comes from the imbecillity of the Retentive Faculty in a deadly, or at least dangerous Disease, is to be cured first with Fomentations applied to the Region of the Stomach, thus made:

Take of the Roots of Snakeweed, Tormentil, and dried Citron peels, of each two ounces; the Leaves of Mints, Plantane, and Sea Wormwood, of each one handful; Nutmeg, Cloves and Cinnamon, of each three drams; red Roses four pugils, beat them and cut them according to art, and fill two bags pinked therewith, and steep them in equal parts of Iron Water, and red astringent Wine; or in Wine alone, if there be no great Feaver, and let them be applied to the Stomach warm one after another.

Afterwards use this Oyntment, or some Emplaister made of those which are prescribed for Cholerick Vomiting.

Also anoint the whole Belly with Oyls, or astringent Liniments.

Give Clysters of Broth in which red Roses have been boiled, dissolving therein Sugar and Yelks of Eggs, and sometimes *Confectio de Hyacinth*, if the Patient be very weak.

And finally, You may give at the Mouth, strengthening and astringent things, as in the Cure of Vomiting before-mentioned; as also those which shall be shewed for the Flux of the Belly.

In a *Cœliack* Passion the Food is sent forth crude and imperfectly concocted. It only differs from Lientery in degree, and is cured with the same Remedies.

But if the Stools be altogether Chylous, this Disease doth not depend upon the fault of the Stomach, but upon the obstruction of the Meseraick Veins, which is usual, especially in Children. And therefore it is to be cured by Remedies which open obstructions and strengthen the Liver, because that is commonly also weak; but you must use no astringents, lest another kind of Flux should follow. These Medicines are at large set down in the Cure of the Diseases of the Liver.

CHAP. V.

Of Diarrhea.

D*iarrhœa* is that kind of Flux of the Belly, by which the Excrementitious Humors are sent forth without Blood or Food, and without the Ulceration of the Intestines.

By the Conditions of *Diarrhœa* properly so called, it is distinguished from other kinds of Fluxes because in *Lientery* and *Cœliack* Passion, the Food is cast forth unconcocted, or half concocted; in a *Dysentery* and *Tenasmus*, Blood is mixed with the Excrements, as in the Flux of the Liver, called *Hepaticus*, and in the *Hemorrhoidal* Flux.

DIFFERENCES. Many are the Differences thereof; which that they may be clearly explained, are to be referred to three Heads: The first whereof respects the matter which is voided; the second the place from whence it comes; the third, the manner and efficient cause which produceth the Flux of the Belly.

First, In respect of the matter voided, this Flux is divided into a Cholerick, Flegmatick, Melancholick, and Serous or Watery.

Secondly, In respect of the place from whence it comes; either it comes from the whole Body, or some peculiar part, as the Brain, Stomach, Guts, Liver, Spleen, Mesentery, Womb, and other parts.

Thirdly, In respect of the manner and efficient cause; one *Diarrhœa* is Critical, another Symptomatical: one comes from an internal cause, as a distemper or evil disposition of the internal parts; another from an external, as from some Medicine or Poyson.

These Differences are seldom found single, but they are often complicated in one and the same Flux. So a Cholerick Flux is from the Liver or the whole Body; a Flegmatick from the Brain or Stomach; a Melancholick from the Spleen, and a Serous from the whole Body.

Also these Differences are complicated from a divers mixture of humors, so that sometimes Choler, Flegm and Water, are sent forth by the same Flux.

There is another kind of *Diarrhœa* different from the rest, which is called *Syntectice* or *Colliquativa*, coming from the melting away of the substance of the Body and Humors by the violent hot distemper of the solid parts: such as happeneth sometimes in the Inflammation of the Bowels, in a strong burning Feaver, Hætick or Pestilential; in which a fat Matter as it were mixed with Oyl or Grease is voided.

Lastly, *Fluxus Stercorosus*, or a Dungy Flux is another kind, in which much liquid Excrement is often voided, which comes from excrementitious Meats corrupted in the Stomach, or a great plenty of Excrements heaped up in the Intestines.

DIAG:

DIAGNOSTICK.

The Knowledge in general is manifest; namely, when more liquid Excrements are voided, and oftner than usually Nature doth allow.

Signs of these Differences which are taken from the matter are manifest to the Senses, namely, Whether they be Flegmatick, Melancholick, Cholerick, or Serous.

The Parts Sending have a more difficult Diagnosis or Way of Knowledge, yet they are thus distinguished.

If the Humors flow from the whole Body, there either is, or hath lately been, a continual Fever, or some other disease of the whole body, as *Cachexia*, evil Habit, or *Leucophlegmatia*, or white Drop sic, or there hath been over-eating or drinking, and there is no sign of any Disease of any peculiar part.

If it be Critical, it is a benefit to the Patient, and is easily endured; and thence the Disease is either cured, or diminished.

Sometimes there happeneth a Critical *Diarrhœa* without a Disease in some bodies which use to lay up evil humors; and being strong, do throw them forth at times when they abound and burden Nature, as *Galen* taught, 7. meth. Cap. 11. of which Flux *Celsus* maketh mention, lib. 4. cap. 19. in these words, *It is healthful for to go often to the Stool in one day, and in many days together if there be a Fever, and if it cease before the seventh day; for the Body is purged, and that which inwardly would have hurt, is now sent forth.*

Among Critical Fluxes, the Serous is one; which comes without a Disease aforegoing, in them who have much water in their Veins, and that chiefly in the Harvest time or Autumn: namely, when the night and morning cold of Autumn, finding the passages external and pores of the skin open, by reason of the heat of Summer aforegoing, doth therefore insinuate it self deeper into the body, pressing forth internally the serous humors contained in the Veins, which Nature afterwards being over-burdened with, sends by the Meseraick Veins into the Intestines, and many times into the Ureters.

Hence it is that many in the beginning of Autumn, and in the first cold weather, do make abundance of Urine for many days together.

But if a *Diarrhœa* be symptomatical, it troubles the Patient much, and weakneth him; and the Disease upon which it comes is increased, or at least is in the same state.

This symptomatical Flux in Burning Feavers and Malignant, is often melting; and hence it is known, because the Excrements appear unctious, and the body forthwith becomes lean, and consumed, and almost in a *Marasmus*.

If the *Diarrhœa* comes from the Brain, the Stools are frothy; *Hippocrates* taught Aphor. 30. Sect. 7. which is not always so: For Flegm may flow from the Brain without Wind, which is the only cause of froth: as also Wind may be mixed with Humors that are bred or contained in the Stomach or Intestines, from whence the Excrements may be frothy, though they come not from the Head.

Therefore we must joyn other Signs to this, namely, if the Brain have any manifest Diseases, as a Catarrh, Deafness, Lethargy, Apoplexy, or great Heaviness, Pain or Sleepiness; and if the Flux be more at night than day.

If it come from the fault of the Stomach, there will be the signs of the Concoction of the Stomach hurt: As if the Food be corrupted, and have a sharp and stinking quality, by which the Expulsive Faculty is stirred up to expel them.

Also there will then be the signs of a hot distemper of the Stomach: So, if the Stools be crude and flegmatick, and if Concoction be slow and diminished, we argue that the Concoction of the Stomach is hurt by a cold distemper: and lastly, we know that the fault is in the Stomach, if the Patient did before fill himself with evil Food which would easily corrupt.

The Flux of the Belly comes from the Guts, when they are full of Worms, and then there will be signs of Worms which you may take from their proper Chapters.

If from the Liver, the Stools will be cholerick, because Choler is bred there; and there will be signs of a hot Distemper, Inflammation, Obstruction and Diseases of the Liver.

If from the Spleen, the Stools will be commonly black or blackish, a distension in the left *Hypochondrion*, a heaviness also or pain there, and other signs of the Spleen distempered will appear.

If from the Mesentery, There will be extension, stretching or pain in that part: But humors gathered in the Mesentery, come commonly from the Liver and Spleen.

If from the Womb, there will be stoppage of the Courses, or the symptoms of the Womb affected, which use to be more violent, and the Flux also at that time when the Terms ought to flow.

PROGNOSTICK. The Prognostick of a *Diarrhœa* is made thus:

A Flux of the Belly which is easily endured, and in which the Patient finds refreshment, is good; On the contrary, that which is painful and weakneth, is evil; The first is to be accounted Critical, the last symptomatical.

When the Liquid Excrements grow thicker, it is good; For it signifieth that the Faculty worketh well by concocting of evil humors; which is done by making them thick.

Thin Excrements with pain often voided, are evil; For they signifie great sharpness of Humors, which do violently pull, stimulate, prick and gnaw the Guts.

Liquid Stools, without feeling when they are voided are evil; For they either signifie Disturbance of Mind or Doting, or Dissolution of the Natural Heat, which is followed by loss of Sense.

Liquid Stools beginning with an acute Disease, and continuing with the same, is evil; For it signifies great plenty of Matter, or an evil quality therein, which forceth Nature to so sudden a Flux.

If a strong *Diarrhœa* comes upon him who hath the *Leucophlegmatia*, it causeth recovery, *Hipp. Aph. 29. Sect. 7.* For there is an Evacuation of the Matter which was in the whole body. But this wants a limitation. The *Aphorism* is true, if this flux happen in the beginning of a disease while the strength is good; otherwise it doth not take away the disease, but the Patient.

If a Woman with Child have a flux of the Belly, she is in danger to miscarry; *Hip. Aph. 34. Sect. 5.* For the food which should nourish the infant, is for the most part carried away, and the strength is abated; as also the Ligaments of the Womb are relaxed by a continual flux of Humors thither; as also the Child and the Womb are infected by the vapor of those Excrements which are continually voided.

Yellow Stools like Yelks of Eggs; green, like Verdegrec; livid, black, of divers colours, or very stinking, are evil; for the reason which we gave in the Chapter of Vomiting.

CURE. As to the Cure; Since a Symptomatical *Diarrhœa* comes commonly from corrupt Humors, Cholerick, Flegmatick, Melancholick or Serous, and especially from Cholerick, which provoke the expulsive faculty of the Intestines by their sharpness. You must begin the Cure by Evacuation of the Humor offending, which must be done by a Medicine which doth astringe by purging, lest that flux should be encreased by motion of the Humors; and you may make it thus:

Take of the best *Rhubarb* one dram: *Citrine Myrobalans* half a dram: *Yellow Sanders* half a scruple: Infuse them in *Plantane Water*; dissolve in the *Liquor strained* half a dram of the Powder of *Rhubarb*, and one ounce of *Syrup of Roses*. Make a *Potion*.

You may add *Diacatholicon*, or other Medicines, according to the condition of the Humor to be purged.

Also Vomiting is sometimes good, because it Revelleth and Evacuateth the Matter of the Disease.

If there be signs of blood abounding and strength, you must first let blood. And if there be a Fever, you must open a Vein, though there appear no Plethory or fulness.

Before and after Purging, give cleansing Clysters, such as these:

Take of whole *Barley* two pugils: *Bran* and red *Roses*, of each one pugil: *Liquoris scraped*, and *Raisins whole*, of each one ounce; boyl them to a pint, dissolve in the straining of white Sugar one ounce, Yelks of Eggs two. Make a *Clyster*.

After the Body is sufficiently emptied, you must give astringents and strengtheners both at the Mouth and by Clysters, as also to the Belly; the Forms whereof you may take out of the Cure of a *Dysentery*.

Besides, You may conveniently use these that follow:

Take of *Chalybeate Vinegar* one part; *Chalybeate Water* two parts: the Leaves and Fruit of *Myrtles*, *Quinces*, *Medlars*, *Services*, of each two handfuls: *Cypress Nuts* six pair, boyl to halfs. Foment the Belly warm with the strained *Liquor* often.

Take of Oyl of *Mastich*, *Quinces*, and *Myrtles*, of each one ounce: *Sanguis Draconis*, *Frankincense*, and *Gum Traganth*, of each one dram; Wax as much as will make an Unguent to anoint after the Fomentation. Or,

Take Crums of toasted Bread infused in *Chalybeate Water*, and *Quinces* roasted in the Embers, or *Marmalade*, of each three ounces; *Frankincense*, *Mastich*, *Sanguis Draconis*, of each two drams: With *Syrup of Quinces* and *Wormwood*, make a *Cataplasm*.

Take of *Mastich* two drams: boyl it in three pints of Water for ordinary drink: Iron Water is also good: but in a hot Disease, it is good to use the Tincture of *Roses*, or Conserve of *Roses* mixed with Spring Water, or Water wherein Gold hath been quenched, mixed with *Syrup of Quinces*.

Apatus Lusitanus reports of one that was cured of a Cholerick *Diarrhœa*, by taking much cold Water

Water in the Summer time. We also once prescribed to a Sanguine man, who was troubled with a Cholerick Diarrhoea in the midst of Summer with great thirst, *Sal Prunella* in his ordinary drink, and Juleps made of Lettuce and Purslain Water to be taken thrice in a day, and he was cured in twenty four hours.

If the Humor be very sharp, and adust or burnt, the Patient must be purged sparingly with mild Medicines, otherwise the disease will encrease, and he is to be cooled and moistened; as also to be blouded a little.

In the same case a warm Bath is very good; the Example whereof is in our Observations.

Plantane boyled in Broth is excellent.

And lest a *Diarrhoea* turn into a *Dysentery*, you must give Clysters of Chalybeate Milk, and Emulsions of the cold Seeds, and of white Poppy seeds, to assuage the sharpness of the Humor.

As also this Syrup following:

Take of the Juice of Quinces six ounces: the Juice of Endive and Sorrel, of each three ounces: Sorrel and Plantane seeds, of each two drams: Red Coral one dram: Plantane Water four ounces, boyl them to the consumption of half, strain and press them well: put to it as much Sugar to make a Syrup to be taken two drams first and last.

In all *Diarrhoea's* after universal Medicines, this following Bolus is good:

Take of Conserve of old Roses half an ounce: Candied Quinces one dram: the powder of Tormentil one scruple; With Sugar make a Bolus to be often repeated. Or if the Disease be old, you may make an Opiate of the same, or the like, in a greater quantity to be taken at many times.

Or to astringe more powerfully, give this Powder:

Take of Sanguis Draconis, Frankincense, Mastick, Mummy, Terra Sigillata, Lapis Hematitidis, or Bloudstone, Troches of Amber, of each one dram: true Bole three drams: make a Powder, of which give two drams in convenient Liquor.

Rhubarb twice infused, and then twice or thrice washed in Rose Water and dried, is good.

The Lozenges of the three Sanders, with four times the quantity of Rhubarb given twice in a day, the weight of two drams, do take away the Matter, and strengthen the Bowels.

The Leaves of Fleabane laid upon fire, so that the smoak may be taken through a hollow Chair, do stop the flux of the Belly by a special quality. As also if the same Herb be beaten with Vinegar, and applied to the Stomach.

Also the smoak of Mullen taken throw a hollow Chair is excellent; the example of which is in our Observations.

Syrup of Coral is excellent, and much more the Tincture or Magistery of the same.

The Conserve of the wild Rose, or sweet Bryer Rose is good against a Cholerick flux, especially if it be mixed in astringent Opiates.

But when there is danger of weakness through a low and often flux, you may give Laudanum with Mastick and Terra Sigillata.

When it is very violent, a Clyster or Broth and new Treacle is excellent.

Pills of Bdellium taken twice or thrice in a Week, or every other day, are good against all old fluxes.

Good for the same is the often use of Medlars; as *Forestus* confirms by experience, *Obs. 1. Lib. 22.* in words: One that had a constant Flux, and spent all he had upon Physicians, came to me for Counsel, whom I advised to eat Medlars, though green, as many as he could: by which he was speedily cured. As it was with a Zealand Merchant that came to John Spirinchius, a Physician of Lovan, who having been long sick, and of a Dysentery at last, and could not be cured by any, was at length by his advice cured onely with Mallows, and gave the Physician three hundred Crowns for his advice, Thus *Forestus*.

But we must observe that the Body, before the use of Medlars, be cleansed from Excrements.

In an old *Diarrhoea*, the following Medicines are excellent:

Take of the shavings of Ivory three drams: Confection Alkermes one dram; Sugar dissolved in Rose water four ounces. Make Lozenges.

Take of Crocus Martis six grains: Bezoard Mineral half a scruple: Conserve of Roses two drams: Spirit of Vitriol three drops: Mix them in a Bolus to be given twice in a day, long after and before Meae.

Take of the Juice of Persicaria Maculata, and of the great Housleek, of each three ounces; boyl them till the third part be consumed, and give them in the morning, they do certainly cure any flux, though very old.

Mercurius Diaphoreticus given some days together, twelve grains at a time, taketh away all the impurities of the body, which use to beget fluxes.

The Decoction of Juniper Berries in Wine given three days together, is good; and also one dram of the Powder of Grasshoppers given in White wine. These two help by deriving the Matter of the flux to the Ureters.

The

The Decoction of Juniper is thus made :

Take of Juniper Berries one handfull : red Wine one pint and an half : boyl them to the consumption of two thirds. Let him take the straining three days together.

The water of Brimstone Mines cures an old Diarrhoea, by purging the body, and by strengthening the Stomach. Of which there is an example in our Observations.

If a Diarrhoea come from a Catarrh, you must Physick the Brain, as the part that sends it, with the Medicines prescribed in the Cure of a Catarrh. But if it depend upon the obstruction or weakness of the Liver or Spleen, you must cure them as shall be shewed in their proper places ; and then there is little or no use of Astringents. *Platerus* in the Cure of the Hemorrhoids, saith, that hot blood given as a Clyster, doth wonderfully cure a Flux.

CHAP. VI.

Of Dysenteria, or Dysentery.

A Dysentery is an often and bloody looseness of the Belly, with pain and torment depending upon the ulceration of the Intestines.

The word *Dysenteria* is taken commonly among the Ancients for every bloody Flux of the Belly : but strictly and properly it is taken only for the Bloody Flux, which comes from an Ulcer in the Intestines.

DIFFERENCES. *Gal. 3. de sympt. caus. cap. 2.* nameth four kinds of Bloody Fluxes, which he commonly calls Dysenteries.

The first is, when any part of the Body is cut, or when any exercise is omitted, or any bleeding is omitted, as usual bleeding at the Nose or Hemorrhoids, that by reason whereof, the blood abounding is sent by the Meseraick Veins to the Intestines, and so evacuated by the Belly.

The second is, when by reason of the weakness of the Liver, watery blood like that water wherein flesh hath been washed, is voided ; as it is in the Hepatick or Flux of the Liver, of which we shall hereafter speak.

The third is, when melancholick and shining blood is cast forth, which by reason of the long continuance in the Liver or Spleen is burnt, and mixed with melancholy. Shining signifieth burning, because blood which groweth black by cold doth not shine, but loseth that brightness or splendor which it had before.

The fourth Difference is, when the Patient at some short distance voids blood with Humors or Excrements, with which sometimes there is mixed Pus or Matter, and that with pain and torment, by which we may conclude that there is an Ulcer of the Guts. And this is properly called a Dysentery, of which only we here discourse.

CAUSES. The Internal Causes of a Dysentery, are sharp and ulcerating Humors, as yellow Choler, green like Leeks or Verdegreece, and black ; as also salt flegm bred in the Head from great heat, or in the Belly by putrefaction, and so brought to the Intestines, where cleaving a long time, it doth ulcerate.

Here is a great doubt propounded by Authors ; How yellow choler in a short time should cause a Dysentery, when green choler in a long time maketh only a Diarrhoea, which never turneth into a Dysentery, since the green is made of the yellow by adustion, and hath more sharpness.

Mercatus answereth, That there must be clamminess, by which it may remain long in the Guts to corrode and gnaw them, as well as sharpness. And therefore if yellow Choler be such, it causeth a Dysentery ; on the contrary, if green Choler be more fluid, and stay less while in the Guts, it makes but a simple Diarrhoea.

Sennertus saith, that this answer is probable ; but it doth not satisfie, because oftentimes there are fluxes, in which there is clamminess with sharpness, and yet there is no Dysentery. And contrarywise, oftentimes there is no clamminess in cholerick humors which cause a Dysentery, and therefore he thinks that the humors which produce a Dysentery have a peculiar occult quality, with which the Intestines are offended and ulcerated, as the Lungs are with the Fish Lepus, and the Bladder with Cantharides, and no other part. And he proveth that malignant quality, in that a Dysentery is contagious for the most part, so that the infections which come from the vapors rising from the excrements of those that have a Dysentery, do only infect the guts of them that are infected, & fall not upon other parts. The same happeneth in other Epidemical and infectious diseases, in which the Poyson doth go only to some peculiar parts ; so their Pleurisies, Peripneumonia's or Imposthumes in the Lungs, and Quinzies which are infectious. So the Poyson of a mad Dog doth only infect the Head: This is more clear to be seen in purging Medicines, which have a peculiar virtue to move the humors in the body, and bring them to the guts, which will not only, being taken at the mouth, purge by stool, but laid to the Navel, or taken by vapor at the Nose, it is probable, that they piercing into the Veins and

Arteries by the pores of the skin, and extremities of the Vessels, do stir up motion, and fermentation, or working in the humors, because the bad humors are separated from the good, and by pricking or stimulating of Nature, they are driven to the Intestines by the force of the Medicine, directing the expulsive faculty to those parts. By the same reason, but after another manner do Sudorificks or Sweating Medicines and Diureticks, or such as provoke Urine work; the former forcing the humors to the Skin, the latter to the Bladder. From which we may collect, that the infection of a Dysentery, by what manner or part soever it is admitted into the Body, doth cause a certain fermentation or working in the humors, by giving them a disposition like it self; which being an Enemy to the Guts, doth provoke the flux of the humors to them, by which they are ulcerated; and they being infected with the like disposition, do infect the humors and nourishment; from whence comes a true and proper Dysentery.

It is demanded of divers Authors, What is that snotty and white Matter which is voided in such great plenty in Dysenteries, mixed with blood and other humors? Some think that it is the fat of the Guts; others, that it is that with which the Intestines are lined, for the better passage of the excrements; others, that it is flegm from the Head or other parts; others, that it is Pus or Matter from the Ulcers. But we conclude, that it is nothing else but a preternatural excrement of the Guts; for they being decayed from their Natural Constitution, cannot convert their proper nourishment into their own substance, but by an imperfect way change it into that Matter; which when it is unfit for nourishment of those parts, is expelled forth, and then the parts wanting again nourishment, attracteth or draweth new, which is changed as the former, and there must needs be great encrease thereof, because the part affected continually draweth blood from the Veins, which is changed into this slimy substance, by which it is deceived of its expectation, and therefore again draweth new for its nourishment, which it continually aimeth at, but cannot turn into its own substance, but into this slimy Matter, of which there is so great an encrease. The same thing is done in other parts, and especially in great and profound or deep Ulcers. For the part ulcerated, when by reason of its evil disposition it cannot be well nourished, draws blood continually from the Veins, which is changed into Pus or Quittory, by which means the whole body by degrees consumeth. Nor doth this befall only parts ulcerated, but others that have no Ulcer or Imposthume; so that although the aforesaid Excrement be like Quittory, yet is not true Pus or Quittory; for that comes only from an Ulcer or Imposthume. This chiefly appears in an Ophthalmy or Inflammation of the Eyes, in which when there is no Ulcer or Imposthume, there is a continual Excrement like Quittory, which comes only from the distemper of the part, and the depravation of the Homiosis, or quality by which it makes nourishment like it self. The same befalls men in Asthma or Phtisick, and other diseases of the Lungs, for their Lungs being distempered, do ill concoct their own nourishment, but turn it into an Excrement like Quittory, which is expelled by coughing, and yet they have no Ulcer in their Lungs, as many learned Physicians will conclude when they see the Matter.

The External Causes of a Dysentery, are all things that produce sharp and evil humors, or give them (being produced) a disposition to cause a Dysentery. The principal are, sharp Meats, or very subject to putrefaction, as Fruits soon rotten, and all unripe things, Waters that are drunk ordinarily wherein there is Crudity or a Mineral, and Medicines which are deadly qualified, and evil Air, as *Hip. Aph. 11. Sect. 3.* when the Winter is too cold or dry, the Spring too wet, and too full of South winds; then there will be Dysenteries in the Summer. And *Aph. 12. Sect. 3.* If the South wind blow much in Winter, and it rain much; but if it be dry, and the North-wind blow much in the Spring, those Seasons produce Dysenteries.

But the proper distemper of the Air to produce a Dysentery, is known in a contagious or Epidemical Dysentery, which sometimes is more dangerous than others. As also there is an infection in the Excrements of those that have this disease to them that smell them, and if they be cast into the Privy, they infect most of the Family that sit over them.

SIGNS. The signs of a Dysentery are taken out of the definition mentioned, an often bloody Evacuation with pain and torments of the Belly, and sometimes a Fever, watching, thirst, loathing of Meat, and other Signs common to many Diseases.

But it is hard to know whether the thick or thin Guts are ulcerated. Usually if the pain be above the Navil, they say it is in the thin Guts, and if below, in the thick; but this is contrary to reason, because both the thin and thick Guts are carried both to the superior and inferior parts. Therefore this sign is rather to be taken from the quality of the pain and the Excrements. For if the thin Guts are affected there is vehement pain, like pins pricking, because they are more Membranous, and of more exquisite sence. As also they go not to stool presently after the pain, and there is blood in every stool; for because the blood and purulent Matter comes far before it be voided, it is more mixed with the Dung; but if the thick Guts are affected, the pain is less vehement and lasting, there is presently after going to stool, the Blood and Matter swim upon the Excrement, or are very little mixed, and in a great Ulceration there are as it were little pieces of flesh.

The Signs of the Causes are taken especially from the colour of the Excrements, when they are yellow, green, white or black, to which you may add the Signs of humors abounding from the Age, Temperament, time of the year, and course of Life.

PROGNOSTICK. The Prognostick is thus made.

If the thin Guts are ulcerated, there is more danger; for they are more Nervous, and being nearer the Liver, they receive more pure Choler.

Dysenteries coming from black Choler or Melancholy, are deadly; *Hippocrates*, Aph. 24. Sect. 4. because the Ulcer grows Cancerous, which is seldom cured outwardly in the Body. But if this Melancholy comes by Crisis or Judgment, it is not so dangerous. But you must beware lest you take congealed Blood for Melancholy.

A Dysentery from Choler or sharp Diet is easily cured: from salt Flegm it is worse than from Choler, because by reason of the Clamminess, it stays longer in the Guts to ulcerate.

If in long Diseases of the Guts, loathing of Meat is evil, and worse with a Fever: *Hippocrates*, Aph. 3. Sect. 6.

In a Dysentery there be as it were little pieces of Flesh voided, it is deadly, Aphor. 26. Sect. 4. for it signifieth a deep Ulcer which takes away pieces of the Guts.

Much Watching, Stools without mixture of humors, black, stinking, much blood, a Lientery coming after, Hickets, Cholerick Vomits, pain of the Liver, Midriff, great Thirst, do commonly declare that it is deadly.

A Dysentery coming to those which have the Gout, or a disease in the Spleen, is good: *Hippocrates*, 2 Progn. & Aph. 46. Sect. but this is rather a simple Diarrhoea which sends forth the matter of those Diseases.

Old Men and Children die more commonly in this Disease than Men of middle Age, *Hippoc.* 2. Progn. Children because of their tenderness, and their not observing rules; Old Men because their strength is spent, and because there is a great overthrow of their natural state thereby; for they do not easily produce Excrements that are fit to cause a Dysentery.

CURE. The Cure of this Disease is wrought by Medicines that assuage, cleanse and evacuate sharp humors, that consolidate and dry Ulcers, and stop the Flux.

At first you must evacuate the humor offending, lest it do more mischief, and you must purge often; and if you think it not safe to purge every day, or every other day, do it every third or fourth day: Rhubarb is the best for this purpose, either given in substance with Broth, or made into a Potion as in Diarrhoea. Or thus:

Take of Plantane half an handful: Liquoris scraped, and whole Raisins, of each three drams, Red Roses one pugil: Tamarinds six drams: yellow Myrobalans rubb'd with Oyl of sweet Almonds two drams: boyl them to three ounces: Dissolve in the straining Rhubarb infused with Lavender in Plantane Water one dram: Syrup of Quinces one ounce: Make a Potion.

Or,

Take of Tamarinds half an ounce: Citron Myrobalans two drams; boyl them in Barley and Plantane Water; infusing in the straining, of Rhubarb one dram and an half: yellow Saunders half a scruple; to four ounces of the straining add one ounce of the Syrup of Roses solutive: Make a Potion.

The Decoction of Myrobalans made thus, and given in many draughts, is commended of many.

Take of the rinds of Myrobalans Chebs ten drams: Citron Myrobalans five drams: Currans two ounces; boyl them in twenty six Pints of Water, to the Consumption of the third part: strain them, and add ten drams of Sugar, clarify it, and put to it half an ounce of Cinamon.

Penotus commends the following Potion as good against both Dysentery and Diarrhoea.

Take of the Bark of Guajacum beaten two ounces, boyl them to halves in a sufficient quantity of Water, adding of red Roses, Pomegranate Flowers, and Plantane, of each two drams; boyl them for an hour, and then add to the straining of powdered Rhubarb one dram; Diacatholicon three drams: Make a Potion.

Many give parched or torrefied Rhubarb, that the purging Quality may partly be taken away: But *Amatus Lusitanus* takes the second Infusion of Rhubarb and saith, That in the first Infusion all his sharpness is taken away, and it is better so than parched, for by so doing it is burnt.

The Preparation is thus made:

Take of Rhubarb one dram and an half; infuse it in three ounces of Plantane Water some few hours; strain it, press it gently, and then infuse it again in three ounces of new Plantane Water, and dissolve in the straining half an ounce of Cassia: Make a Potion.

If you desire, by reason of the abundance of crude humors, to purge more, then you may mix Syrup of Roses or Diacatholicon, or other mild things, but beware of strong.

Sometimes

Sometimes a Vomit is very good, if the Patient be inclinable, and the humors stand in the Stomach; for it makes a revulsion of the humors from the part affected. Which *Amatus Lusitanus* wisely mentioned, *Curat.* 44. Cent. 2. in these words: *If the Physician can draw upwards, and cast out by Vomit, a Humor that is cholerick and sharp, flowing to the Guts to make a Dysentery; it would be contrary to the Precepts of Galen, in his Book of Medicinal Art., and Method of Cure, to carry the matter by the Guts which are full of Ulcers. But when the Physician cannot do it, although he ought to try his best skill, he must use Purges, and especially Rhubarb.* This *Hippocrates* taught, *Aph.* 15. Sect. 6. *After a long flux of the Belly, if Vomiting come of it self, the Disease is cured.* But *Galen* in his Comment upon this Aphorism, saith, *That this is the example of those things which are done rightly by Nature, which a Physician ought to imitate.* And *Mercatus* confirms the same in these words: *Divert the Humors another way by bleeding if thou canst; also Purge and Vomit, especially in salt Flegm, for thus we have seen old Dysenteries cured.*

Angelus Sala prescribeth this following Vomit in a Dysentery:

Take of Salt of *Vitriol* half a dram, or a dram: Syrup of *Quinces* and *Betony Water*, of each one ounce: *Cinnamon Water* ten drams: Mix them, and drink it off.

There is a great dissension among Authors concerning Blood-letting in this disease. And it is the Opinion of the wisest, that in a Fever and Inflammation of the Intestines (which is commonly joyned with an Ulcer) that it ought to be in the beginning of the disease, before the strength be decayed by it; for so there is a revulsion of Blood, and sharp humors flowing to the Guts. And *Valescus de Taranta*, and *Amatus Lusitanus* in an old Dysentery draw Blood. *Valescus* saith, *That a very old Man had a Dysentery three Months; I being sent for, when other Physicians opposed it, commanded a Vein to be opened, and he presently amended.* And *Amatus* saith thus; *That an understanding Physician went to a man, who had a Dysentery thirty days, with a great Fever, and after the use of divers Medicines was brought very low and lean, his Flux continuing with much Blood, and drew Blood from the Liver-Vein of his right Arm: and observe with what success; Presently, miraculously the blood stopped, though his Flux continued. But by Clysters with Sugar and astringent Medicines, both internal and external, his Belly was bound, and he cured.*

In the mean while give many Clysters, first asswaging, mild and cleansing, then glutinous and astringent; and sometimes in one Clyster all together, or most of them.

Mild, gentle, and anodine Clysters that assuage pain, are made of Milk, either alone, or with two or three yolks of Eggs, or with the Mucilage of Fleabane seeds and Quinces, of each four ounces; with Sugar or Honey of Roses one ounce, Goats Suet one ounce, or with Milk wherein Gold, Iron or Flints have been quenched, that the serous part may be consumed, and so it may be more glutinous.

In want of Milk, you may give Almond Milk, or Barley Cream, or Rice Milk, alone or together; as also the Broth of Mutton, Chicken, Capon, or a Sheeps-Head, and mix the former things therewith. It is usual to boyl Roses, and the Herb Horse tail with a Sheeps-Head. Or this following.

Take of Marsh mallow Roots one ounce: cleansed Barley, or Rice one pugil: Linseed and Quince seed, of each one ounce; Fleabane seed half a dram; Chamomel Flowers one pugil: Boyl them in Milk or Broth, adding to the Suet and Yolks of Eggs, and other things before-mentioned.

Or you may make it of Milk alone, boyled with Marsh-mallow Roots at the first, to cleanse and assuage the pain.

If the pain be great, you must mix Narcoticks; as *Philonium Persicum*, one or two drams: Pills of Hounds-tongue one or two scruples: Syrup of Poppies one ounce and an half: Laudanum five or six grains in your Clysters.

If there be an Inflammation in the Guts, which may be known by constant pain, and increasing when it is touched, also by a Fever and driness of the Tongue; let blood again, give Clysters of Rose-water, with Salt of Lead, and foment the Belly with Oxycrate, or Wine and Water.

Also you may give Salt of Lead at the mouth to ten grains, with Conserve of Roses.

Cleansing Clysters are made of Barley Water, Bran, red Roses, Sugar or Honey of Roses.

But for the greater cleansing and glutinating Ulcer, add one dram of Turpentine dissolved with the Yolk of an Egg. When the Ulcer is more foul, you must use greater cleansers, as Beets, Pellytory of the wall in the aforefaid Decoction. The strongest Cleansers are, Centaury, Wormwood, Gentian, Brine or Pickle, from *Galen*, 12. Meth. Cap. 1. and the like, the use of which is now very rare.

Zacutus Lusitanus durst use Arsenick, and yet with good success, as you may see *Obs.* 18. Lib. 2. of his Admirable Practice of Physick.

Some Chymicks use the Oyl of Wax in Clysters one dram, and anoint the Belly with the same.

To glutinate or heal up the Ulcer, first use gentle driers in Clysters, and a little astringent, then such

such as are more drying and binding. Therefore make them first of Chalybeat Milk, in which Roses have been boyled, or of Barley Water, or Water of parched Rice, and red Roses one pugil, adding to both Clysters two Yelks of roasted Eggs, sometimes Hony of Roses; and when you will have it work better, one ounce of the Juyce of Plantane.

To bind and glutinate more, make it thus:

Take of the Root of Comphry and Mullein, of each one ounce: Plantane and Comphry leaves, of each one handful: red Roses and parched Barley, of each one pugil: Myrtles two drams: Make a Decoction in Cistern water: ¹ one pint of the straining, dissolve of Hony of Roses one ounce: one white of an Egg, or one ounce of the Mucilage of Gum Traganth, Goats Suet two ounces: the Juyce of Tarrow and Knotgrafs one ounce. Make a Clyster.

Take of Snakeweed Roots or Tormentil, one ounce and an half: Shepherds-purse, Knotgrafs, Horstail and Mouseear, of each one handful: Pomegranate flowers, Acorn cups, Cypress Nuts, of each two drams: parched Rice one pugil: make a decoction in Forge water: in a pint of the straining dissolve two ounces of the Juyce of Plantane, and two Yelks of roasted Eggs. Make a Clyster.

Angelus Sala wonderfully commends this following Clyster:

Boyl a Sheeps-head Cloven in two, till the flesh comes from the bones, add to the Broth strained of the tops of St. Johns Wort two or three handfuls: Tormentil Roots grossly bruised two ounces: Infuse them three or four hours upon the Embers. Let the straining be twice or thrice given as a Clyster.

The Juyce of Plantane alone, or with the Milk or Barley Water is good.

Gum Traganth two drams, or the infusion of it in Rose or Plantane water, is good to put in Clysters; or it makes a very good one, if it be mixed with Juyce of Plantane, and Goats Suet instead of Gum Traganth. Or with it you may with profit use Gum Arabick, Frankincense, Mastich and Sarcocol. All which being dissolved in the aforesaid Liquors, do work by glewing, neither do they exasperate the Ulcers as the strong Astringents. *Amatus Lusitanus* doth much approve Clysters made of them, because they do cover, as with a Plaster, the internal superficies of the Guts against the gnawing of the Matter; he makes them thus:

Take of Barley Water ten ounces: one white of an Egg well beaten: Gum Arabick and Goats grease, of each half an ounce: Oyl of Roses two ounces: Bole-Armeniack and Gum Traganth, of each one dram; mix them for a Clyster.

But lest those Emplaistick Clysters should fasten the sharp Matter, and shut it up by their clamminess, you must use cleansing Clysters also, which must not be long retained; and you must sometimes use cleansing Clysters intermixed with astringent.

In the astringent you may put Acacia, Hypocistis, or conserve of Sloes, Sanguis Draconis, Bloudstone, the Juyce of Maddir taken out with Rose or Plantane Water, Bole-Armeniack, Terra Sigillata, or sealed Earth, the Troches of Amber, and the white Troches of *Rhasis* to one or two drams. Other Powders are hurtful, because they settle in the Liquor, and provoke that part to pain.

And it is better to infuse the aforesaid Powders in Liquor, or in a Decoction, and to give them strained.

While you give Clysters, you must give at the Mouth Medicines of the same Nature, and that oftener when the upper Guts are ulcerated, to which the Clyster cannot reach.

If there be no Feaver, you may profitably, when you intend to cleanse, give Goats milk; and when you intend to glutinate, Cows milk, both with Sugar of Roses. But Chalybeat milk, that is, Steel infused, doth knit or glutinate better; three ounces thereof with Juyce of Plantane, and Sugar of Roses, of each one ounce, make an excellent Medicine. Or boyl Comphry Roots in Steeled milk.

Or make Bread of the finest Barley with Yelks of Eggs, and set into the Oven after the Bread is drawn: Crum milk and Sugar therewith, till it is as thick as a Pultis: of which let him take five or six spoonfuls twice or thrice in a day.

Veal broth boyled very long doth assuage pain in the Ulcers.

And Cream of Rice doth heal them up.

Lerius reports in his History, That many troubled with Dysenteries, in a long voyage and almost starved, were cured with Rice boyled in Milk with Yelks of Eggs, and Juyce of Ground Ivy.

Also you may boyl Rice in Almond milk, in which Gold hath been quenched.

Cream of Barley with Sugar doth cleanse and cool.

Broth made of Burnet with Butter, given three days together morning and evening, doth much further the Cure, and the more, if the decoction of Burnet at the same time be given for ordinary drink.

The Rinds of two greenish Oranges boyled in eight pints of water for ordinary Drink, doth half the Cure.

Of the Powders of a dead-mans Skul one dram twice or thrice given in Broth, or other convenient Liquor doth quickly cure perfectly.

Two spoonfuls of the Mucilage of Gum Tragacanth drawn with Rose Water or Gum Arabick half a dram, may be dissolved in all his Broths; as also one spoonful of the Gelly of Harts-horn is good.

After the body is well cleansed, give astringent Decoction to compleat the Cure; which must be made of the Roots of Snakeweed, Tormentill, Comphry, Plantane Leaves, Yarrow, Shepherds Purse, Horse-tail, Mouse-ear, Agrimony, Plantane and Sorrel Seeds, Sumach, Grape-stones, Red Roses, &c. in Cistern Water; dissolving therein the Syrup of Quinces, Myrtles, or of dried Roses, as also sometimes Acacia, Hypocistis, Conserve of Sloes, Bole-Armeniack, Spodium or burnt Ivory.

The Juyce of Quinces boyled to the consistence of a Syrup or Rob, without an addition, given a spoonful or two often, is very profitable.

The like Juyces may be made of Pears, Cornel, or Dog-Tree Berries, and other sharp Fruits.

Take the fat Guts of a Sheep, boyl them till the Liquor come to half a Porringer, then put a little sweet Oyl thereto, and let him drink it; if the Dysentery be not stubborn, it cureth it at the first or second draught.

Oyl and Rose water given in equal parts do the same.

Let two Yelks of hard Eggs, and mixed with Rose water, be taken with Sugar and a little Nutmeg twice or thrice.

The Juyce of Plantane only given three or four ounces at a time, or mixed with other proper things is excellent; and if there be an Inflammation, it allayeth it.

Hollerius saith, That the Juyce of Ground-Ivy taken, hath saved many a mans life.

Juleps of Waters or Decoctions and Astringent Syrups are to be often given.

Syrup of Coral, as also the Tincture and Magistery thereof are very good, which must be taken often in a spoon; or these following:

Take of Syrup of Grapes, Myrtles, and Juyce of Plantane, Quinces, and dried Roses, and Syrup of the Juyce of Purslain, of each one ounce; Mix them for the use aforesaid.

In the end of a Dysentery the Juyce of Wormwood and Mints well putried, and made into a Syrup with Sugar, is very available; for Mints mixed with Wormwood hath great force to strengthen the Stomach.

And if the Dysentery came by eating much Fruit, in the beginning, Syrup of Wormwood with Cinnamon or Treacle water, is excellent, if you at the same time use Fomentations and Emplasters to strengthen the Stomach.

A Quince made hollow, and filled with the shavings of Virgins Wax, roasted under the Embers, given for some few days together, is a most proper Remedy.

Quercetanus makes the same Medicine of *Pomum Curtipendulum* made hollow, and filled with Gum Arabick and wax, of each one dram, then roasted, and after 'tis eaten, let him drink a draught of astringent Decoction.

Others roast a young Pigeon stuf with wax, and give it for a Dinner.

The use of Medlars according to *Forestus*, cures old Dysenteries, lib. 22. Obs. 1, which we mentioned in *Diarrhoea*.

Bruerynus, lib. 8. *de re cibaria*, cap. 12. writes that he was cured of a desperate Dysentery, by eating raw Service-berries, by the advice of an Old Woman.

Nor let us omit the Oak Grape mentioned by *Martin Ruland*, which he saith, Is under the Earth, upon the Roots of an Oak in Spring time, of a binding tast, outwardly like Pulp, inwardly white, and like milk, which dieth in Summer, and turns to a stick; and therefore must be dried in the shade, and powdered in the Spring: He saith, That there is no more excellent powder to stanch bloud and Dysenteries than this. Also *Eucelius*, *Bauhinus* and *Skenkius* mention the same.

In every Flux of putrid Humors, let the Guts be strengthened with Bread twice baked, first boyled in Vinegar, and then dried; after it is twice or thrice thus prepared, powder it, and thicken Broth therewith.

Also there are many powders for this: As,

Take of Snakeweed and Tormentil Roots, of each one dram: Red Coral and Pearl prepared, of each half a dram: make a Powder to be taken one dram at a time in Broth, or the like: You may make it more Astringent with Red Roses, Myrtles, Pomegranate Flowers, Harts-horn burnt, or Ivory burnt, or Troches of Spodium: Or for more binding, with Sanguis Draconis, Acacia, Galls, Bole-Armeniack, sealed Earth, Bloud-stone: And if you desire to glutinate, also add Fleabane seeds, Starch and Gum Tragacanth.

The Eastern Bole given one dram in Broth doth cure the *Dyfentery*, if fufficient purging went before. Or,

Take Powder of *Tragacanth* one dram : *Nutmegs*, *Coral* prepared, of each half a dram : mix them and let it be given twice or thrice with a rear Egg or Broth. Or,

Take of *Gum Arabick* one dram : *Coral* and *Bole* prepared, of each half a dram : mix and use it as the former. Or,

Take of burnt *Harts-horn*, *Bole-Armeniack*, both *Corals*, all the *Sanders* and *Mastick*, of each half a dram : *Frankincense* and *Tragacanth*, of each half a scruple : mix them for a powder, of which take half a dram often.

Foreftus doth highly commend the following powder,

Take of *Citrine Myrobalans*, and *Rhubarb* a little parched, of each one scruple : make a Powder for one Dose.

Hercules Caxonia faith, That all new *Dyfenteries* are prefently and furely Cured by this Powder :

Take of *Cuttle bone* burnt two drams : *Spunge* dipt in *Pitch*, and burnt in a Pot, and of *Egg-shells* the inward skins taken away, of each one dram ; make a Powder. The Dose is one dram in a convenient *Liquor*.

The Powder of *Elder-Berries* is by experience approved, it is prefcribed by *Quercetanus* in his *Dispensatory*, and there you may fee the use of it.

You may give *Opiates* made after this manner :

Take of *Conferve* of old *Roses* and *Quinces*, of each one ounce ; *Conferve* of *Comfry* Roots half an ounce ; *Coral* prepared one dram and an half ; *Crocus Martis*, *Bole Armeniack*, *sealed Earth* and *Plantane* feeds, of each one dram : *Spodium* two scruples : with *Syrup* of dried *Roses* or *Myrtles* make an *Opiate* : of which give the bigness of a *Chefnut* twice or thrice in a day ; Or with an equal weight of *Sugar*, you may make a Compound to be used often.

Mycteta Nicolai is good for the fame.

Crato wifely admonifheth, That before the feventh day, before the *Ulcers* of the *Guts* are well cleaned, you give no *astringents* at the mouth, nor externally, but after the feventh day you may begin with gentle *astringents*.

Montanus doth wholly forbid them, and ufeth only *Cleanfers*, *Affwagers* of pain, and *Thickeners* ; But when the matter of the *Difeafe* is well evacuated, the weaknefs of the retentive Faculty by which the *Flux* is nourifhed, may be well taken away with *astringents*.

Therefore it will be profitable, after fufficient purging, to give for many days, *Bole*, *Terra Lemnia*, Powder of *Elder-berries*, or other *astringents* and *dryers* with *Sugar*, till the Patient be well : but if too much binding feem to hurt, you muft purge again, then bind, after purge ; and you muft obferve that thofe *Earths* do avail two ways, namely, by binding and by oppofing the evil quality which is in the *Difeafe* : And the *Obftruction* which is feared by their use, is taken away by *Sugar* mixed with them.

To allay Pain, and heal the *Ulcer*, this *Electuary* is beft :

Take of the *Mucilage* of *Quince* feeds, *Comfry* Roots, and *Gum Tragacanth*, all extracted with *Rose Water*, of each one ounce : *Starch* one dram : *Red Coral* two drams ; *Bole Armeniack* prepared one dram : *Pomegranate* Flowers half a dram : *Rob*, or *Conferve* of *Services*, or *Quinces* two ounces : *Sugar* of *Roses* one ounce : make it like an *Electuary*, The Dose is two drams.

Narcoticks, or things that bring reft, given at the mouth, do wonders, for they take away pain, ftop the *Flux*, provoke fleep, and refrefh the ftrengh ; but they are better, when they are mixed with *astringents* and ftrengtheners. As,

Take of old *Conferve* of *Roses* two drams : *Laudanum* three grains : *Confectio Alkermes*, half a scruple : Make a *Bolus*.

In a Malignant and Epidemical, or Common *Dyfentery*, Medicines of *Bezoar*, and *Sudorifick* or *Sweating* Medicines, are powerful ; for it is obferved, that by thefe Remedies, the matter hath been difcharged, and the *Dyfentery* cured : Therefore obferve at firft the nature of the *Humor* ; for if it be malignant, as in a common Epidemical *Difeafe* it is, you fhall in vain try other Medicines, except at the fame time, and in the beginning, you give *Antidotes* or *Cordials*. Here you may use all things proper to a malignant *Feaver* : And befides thofe things that provoke Sweat, as *Bezoar* and *Aqua Theriacalis*, or *Treacle water* ; *Harts-horn*, *sealed Earth*, *Bole Armeniack*, *Unicorns-horn*, *Coral*, *Amber*, *Scordium*, *St. Johns Wort*, *Plantane*, *Tormentil*, *Burnet*, and many others, are very good.

Outwardly to the whole belly apply *Oyl* of *Quinces* and *Roses*, or if you will have a more *astringent*, *Oyl* of unripe *Olives*, or put the third part of *Vinegar* to them, and boyl them to the confumption of the *Vinegar* ; If the *Stomach* be affected alfo, add *Oyl* of *Mastick* and *Wormwood*.

After anointing, sprinkle the part with some astringent powder made of Myrtles, Pomegranate-peels, Galls, Cypress Nuts, Acorn Cups, Red Roses, Pomegranate flowers, Frankincense and Mastich; to which for the more binding, add Bole Armeniack and Terra Sigillata or Sealed Earth.

Of the same Powder without the Oyls, you may make an Oyntment for the same Use with a little Wax: Or, You may use *Unguentum Comitissa* alone, or with other Oyntments.

The Cataplasim prescribed before for *Diarrhœa*, and this following, if you will bind strongly, may be used:

Take of Bole six drams: Frankincense six ounces: Sanguis Draconis, Mastich and Mummy, of each two drams: make a Powder, which you may apply to the Belly beneath the Navel, if you mix it with Vinegar and the white of an Egg, and lay it upon a Cloth. Or,

Take three ounces of Spiders Webs, and one white of an Egg well beaten: fry them in a pan, and apply them hot to the Navil.

A Cataplasim of Treacle and sealed Earth to the Belly, is good in an Epidemical or contagious Dysentery.

This following Cataplasim to strengthen the Liver is much commended of Solenander in every flux, both of the Liver, called *Hepaticus*, and in a Dysentery and old *Diarrhœa*. Nor must you fear Astringents (saith he) because they are tempered with things to strengthen the Liver.

Take of Liver-wort and Schenanth, of each one handful: Indian Spike half a pugil: Mastich and Mace, of each half an ounce: Lignum Aloes three drams: Myrobalans, Chebs and Emblicks parched, of each one ounce: Bole, sealed Earth and Bloud-stone, of each six drams: Coriander seeds prepared one ounce and an half: Spodium or burnt Ivory two drams: Roses one ounce: the Species of three Sanders without Camphire half an ounce: Rust of Iron prepared one ounce: Barley flower two ounces: Oyl of Mastich and Myrtles of each as much as is sufficient: make an Emplaster to cover the whole Belly, from the Cartilage called *Ensisformis* or *Xiphoids*, to the *Os Pectinis*, or the Bone at the bottom of the Belly.

You may also make a Fomentation for the whole Belly of a Decoction of astringent things made in Iron Water with a little red Wine and Vinegar. Or,

Take of red Roses two handfuls: Wormwood and Mints, of each one handful: Nutmeg and Cypress Roots, Mastich and Galangal, of each one dram: With a Linen Cloth make a bag as big as the Belly, which being warmed in red Wine or Vinegar, may be laid upon the Belly. Or,

Take of Wormwood, Mints, Plantane, Oak Leaves, and tops of Brambles, Horstail and Knotgrass, of each one handful: Chamomel flowers two pugils: red Roses half a handful: Myrtles one dram: Seeds of Sumach, Plantane and Coriander, of each six drams: Nutmegs three: make a Decoction in steeled Water, and red Wine for to foment the Belly.

Rulandus doth apply a Bag of Bran boyled in Vinegar.

If the pain be great, apply a linen cloth wet in steeled Milk that is warm.

But if Fomentations will not Cure, you may use Waters to sit in called *Incessus*. These are commended by Mathew de Gradi, Savanarola and Jachinus, who saith, that they are a great secret for the Cure of Children, for by their actual heat they do drive the humors somewhat towards the Skin, and by their astringent quality stop the flux. But you must not use them if the body be very full of evil Humors, or if the Dysentery be malignant, and joyned with a Feaver. They are made of Oak buds, green Cypress Berries, green Pine nuts, or Leaves, Barks, and other such like boyled in Water, of the aforesaid Decoctions for Fomentations.

You may make Fumigations that the Patient may receive the vapor of them through a hollow Chair.

Especially a Decoction made of Mullen and Fume thereof received, is commended in this Disease and also for a *Diarrhœa*.

Faventius commends a Fumigation made of Turpentine cast upon a hot Iron taken up into the Body twice in a day.

And he commends also this Fomentation:

Take of Balm one pound: Mullen one handful: Put them in a long bag: boyl it well in red Wine, and strong Vinegar, and apply it to the Fundament.

Rulandus useth a Decoction of Acorns in Vinegar for a Fomentation.

And Faventius proponndeth this following Lotion as a secret to stop the Dysentery:

Take of the dross of Iron, and filings of Steel, both prepared in Vinegar, of each one pound: then boyl them in two pints of very strong Vinegar to the consumption of half. Let the Patient put his feet and his hands half an hour every morning and evening therein.

In a long disease, and when there are Ulcers in the Guts, Quick-silver is good, if it be mixed with Oynt-

Oyntment of Roses, and the Belly anointed therewith. As also the Clysters afore-mentioned for filthy Ulcers.

At the same time you may give Milk and Syrup of Myrtles.

Also one dram of true Balsom given in water, doth wonderfully heal all inward Ulcers.

For asswaging pain, apply the Caul of a new killed Sheep to the Belly, and bind it on, especially to Children, and repeat it often.

If the Liver, Stomach or Brain cause this Flux, you must use proper Medicines to them, always making choice of those that do astringe and strengthen.

For his ordinary drink, give him Spring water with Conserve of Roses, the Tincture of Roses, a Decoction of Oaken Leaves, or water wherein *Terra Sigillata* is infused, or wherein red hot Gold hath been quenched with Syrup of Quinces, Myrtles, or dried Roses. Or when there is no Fever, use a weak Decoction of Mastich with the Syrups afore said. According to *Crato's* Judgment, you must not use any Chalybeat or steeled drink; for it doth not astringe, as commonly they suppose, but troubleth the Belly. Others commend the Decoction of Gramen or Dogs Tooth, because it is good to dry and divert by Urine.

Lastly, 'Tis worth the observation which *Aetius* speaks, *Lib. 3. cap. 8.* and *Paulus, Lib. 1. cap. 35.* That old Fluxes are dried up by Venery. Which *Hippocrates*, said formerly, 7. Epid. in the end; *Excessive Venery doth cure fluxes of the Belly.* *Amatus Lusitanus* learned this Truth by Experience, *Curat. 41. Cent. 2. One troubled with a Dysentery (saith he) very violently, was married, and the first night he lay with his Wife was cured.*

Let this be added for a Conclusion, which is related in the Cure of Diarrhoea out of *Platerus* in his Cure of the Flux of the Hemorrhoids; Hot Blood of either Man or Beast given in a Clyster, doth wonderfully stop and cure the Flux.

CHAP. VII. Of Tenasmus.

Tenasmus is a continual desire to go to Stool, and voiding of nothing but slime or bloody Matter.

CAUSES. The immediate cause of this Disease, is an Ulcer in the streight Gut called *Intestinum rectum*; from which, Quittar or filthy Matter continually floweth, and stirreth up the Expulsive Faculty, by which means there is a continual desire of going to stool. Moreover, there is voided a slimy Matter mixed with blood, from the depravation of the *Homoiosis* (or quality that converts things into its likeness) of the ulcerated part, because it cannot well concoct its proper nourishment, and make it like it self, but turns it into another slimy substance; as we shewed more at large in Dysenteries, and other Ulcers of the Guts.

But in regard we said in the Chapter of Dysentery, that all the Intestines might be ulcerated in that disease; thence it seems to follow, that the Ulcers of the straight Gut called *Rectum* belong to a Dysentery. Yet Custom hath so prevailed, that when the *Rectum* is only hurt it is called by the name of Tenasmus: And because when other Guts are affected, if the *Rectum* suffer, there is also Tenasmus or needing, although the disease be then called a Dysentery; therefore Dysentery and Tenasmus are of the same Nature, and have the same Cause, and differ only in respect of the part affected. And therefore we need not repeat the Causes, because they are the same with those that produce a Dysentery.

DIAGNOSTICK. For the knowledg of this disease, there is no more required but to distinguish it from a Dysentery, which you may learn from the definition. For in a Tenasmus there is a continual meeting; but in a Dysentery it is by fits: besides, in that, after great straining, there is voided only a little slime, bloody or mattery; but in a Dysentery, both Excrements and Humors are continually voided.

The Signs of the Causes are the same with a Dysentery.

PROGNOSTICK. As for the Prognosticks, *Celsus*, lib. 4. cap. 19. saith, that a Tenasmus is easily cured, and that of it self it never kills any; yet *Galen*, 5. de usu partium, cap. 4. reckons it among the chiefest diseases of the Belly; and truly it may very well be accounted grievous, in respect of its troublesome and long continuance; yet it is not dangerous, except it come of melancholy, for then it tends to a Cancer ulcerated; besides, it brings great inconveniences, as Miscarriage or Abortion to Women. So *Hip. Aph. 27. Sect. 7.* saith, if a Woman with-child have a Tenasmus, she will miscarry. For the continual straining at stool doth much disturb the Womb, which is so near to the straight Gut. Besides, the same Muscles which serve to throw out the Excrements, are employed for delivery; therefore when they daily compress the lower Belly, they cause Abortion. Lastly, the Ulcers of the *Rectum Intestinum* being near the *Anus* or Fundament, if they continue long, turn to an incurable Fistula.

CURE. The Cure of a Tenasmus little differs from the Cure of a Dysentery. And therefore first, the sharp humors that come from the Liver and other parts, are to be purged with Medicines that leave an astringent quality, as chiefly Rhubarb, which must be so often given, till the humor seem to be spent.

If there be an Inflammation (which is chiefly known by a Fever) or if much blood, you must open a Vein. And in case it continue after bleeding, and cause a strangury or difficulty of Urine (as it often doth) it is very good to open the Hemorrhoids with Horse-leeches.

Also you must use asswaging Clysters when there is much pain; and cleansing, glutinating and astringent, according as the Ulcer requireth; the forms whereof are to be found in the cure of Dysentery.

But in the use of Clysters, observe first, that you give them often, and in a small quantity, only half a pint, because they will be hardly kept any time, by reason of the continual needing. And the pipe must be warily conveyed in, lest the pain be increased.

And you must diligently apply Fomentations, Injections or Baths to sit in, Fumigations, Suppositories and Oyntments.

You may make a Fomentation thus:

Take of Mullein and Wormwood of each six handfuls: boyl them in new Milk, and put them into two bags, which apply to the Anus and whole Belly one after another very warm. Or,

Take of Camomel Flowers and Roses, of each one handful: red Wine two pints: Infuse them two hours upon hot Embers. Foment the Fundament as hot as can be suffered with four times doubled cloths: After let the Patient sit upon a sponge dipped and strained from the same Liquor.

Or, Fill two Bags with Barley Bran, and boyl them in Vinegar: Let the Patient sit one while upon one, another while upon another, as hot as he can.

If he void much blood, make the Fomentation thus:

Take of Mullein Leaves and Roots two handfuls: Red Roses one pugil: Pomegranate peels and Galls, of each half an ounce, boyl them in two parts of Iron Water, and one of red Wine for a Fomentation; which you may make stronger, if you add half an ounce of Allum.

Injections, or Baths to sit in to assuage Pain are made of Emollients boyled in Water, or Broth of Sheeps-Head and Feet, to which you may add Violets, Nightshade, Gourds and Melons sliced, but for healing of Ulcers you must make them of Astringents aforementioned.

Fumigations are good to dry the Ulcer, made of Frankincense burnt, or the Decoction of Savin made in Oxycrate, or other things mentioned in the Cure of a Dysentery, the Fume whereof must be taken sitting in a hollow Chair. But this following is commended by Forestus.

Take of Mastich one dram, Frankincense one scruple; Myrtles one dram and an half: Red Roses two scruples: make a Powder for a Fumigation.

Suppositories are good in this disease, they must be gentle and mild, lest they exasperate the part which is so sensible: They are fitly made of Goats Suet cut into the form of a Suppository; for they appease the pain, and heal the Ulcer: but they will be better against pain, if you mix the seed finely powdered of Poppies or Henbane, and tie them in a knot in Paper like a Suppository: But far best, if you instead of these things put three drops of the Oyl pressed out of these Seeds to every Suppository: or one grain of Opium dissolved in half a scruple of Oyl of sweet Almonds.

The Ulcer will be sooner healed, if you first dissolve the Suet, either alone, or with white Starch, Gum Tragacanth beaten, and first steeped in Plantane Water, or else with some Narcoticks: Or thus,

Take of Gum Tragacanth as much as is sufficient, sprinkle it with Plantane Water, that it may only swell and dissolve; then add as much of the Mucilage of Fleabane seeds, or Quince seeds, and mix them with the white of an Egg roasted; then with melted Wax make them into a Suppository: You may also add Narcoticks: as likewise to Cure the Ulcer better, the powders of Ceruse, Tutty, Bole, Pomegranate Flowers, and the like, which dry without Acrimony and sharpness: And these must be very finely powdered and sifted, lest the part be exasperated.

You may apply Oyls and Oyntments as in a Dysentery, to the Belly and Fundament: As Oyntment of Roses, Populeon, or of the Mucilage of the whites of Eggs, Oyl of Roses, and the like, to take away Pain and Inflammation: and other things that shall be mentioned in the Chapter of Hemorrhoids, or to Cure the Ulcer, the white Oyntment of Rhasis or Pompholygos, melted in Hydromel, or in Honey and Water.

Lastly, In a more desperate condition, use Narcoticks both inwardly and outwardly; but three or four grains of Laudanum is best given with Mastich and Terra Sigillata, or mixed in a Clyster made of a Decoction of the Flowers of Camomel.

CHAP. VIII.

Of Fluxus Hepaticus, or Flux of the Liver.

A Flux of the Liver is that in which ferous and bloody humors like water wherein flesh hath been washed, are voided.

CAUSES. This Disease is produced from the Liver, being weak, and out of tune; by reason whereof it cannot breed good blood, but turneth the Chylous matter into thin and ferous blood, which because it is not fit to nourish, is sent by Nature into the Intestines, from whence comes this Flux of the Liver.

This weakness and disorder may come from any distemper: For by the excess of any of the first qualities, the Native heat, and its power to make blood, is dejected. Yet this hath a doubt rising from Experience, because we see often, that great distempers of the Liver, and excess in the first qualities do produce other diseases, and not this. And again, this Flux is many times without the excess of the first qualities. That therefore the nature of this disease may be declared, we must say with wise *Verandus* my Master, there is something more than an ordinary distemper for producing of this disease. And it is occult or hidden, consuming the radical moisture in the Liver, which also destroyeth the Natural heat.

This evil disposition, and occult distemper may come by burning and swooning Feavers, by a hot distemper of the Bowels, which melteth the Oyly substance, by occult corruption, and corruption of humors, by a great coldness from Flegm and Melancholy abounding, which doth oppress and corrupt the natural heat; and it may come by outward Causes, as great draughts of cold water, Snow or Ice, extraordinary eating of raw Sallets, Poyson and Medicines that purge too vehemently. By drinking of too much new Wine, salt, sharp and prepared Meats, and strong things which parch the substance of the Liver. To these you may add all other Causes, which by too much cooling or heating do dissolve the strength and tone or order of the Liver.

Hitherto is declared a true and proper flux of the Liver which hath this sign, there are liquid and ferous stools, like washings of flesh, from the weakness of the Liver, which cannot sanguifie or make blood well, or from a malignant distemper which spoileth the natural heat and moisture.

There is also a Bastard-flux of the Liver, which comes of a simple distemper, without any fault of the radical moisture; by which distemper the faculty is not hurt, but the work hindered; so that instead of pure blood, there comes impure and corrupt, or good turns into evil, when in a true flux of the Liver there is never any good blood in the Liver.

The blood is corrupted, either by the mixture of Choler or Melancholy, or some other impure Matter, or from its too long staying in the Liver, and the parts adjacent, by which it is made thicker, or burnt, or rotten; or from the fault of the Spleen, which doth not suck away the drossie blood; and in this Bastard-flux, sometimes thick, sometimes black blood is voided, and sometimes blood is mixed with humors of divers colours.

SIGNS. The signs of this disease may be gathered from what hath been said. For in a true Flux there appear moist stools, like washings of flesh, which are not in other Bloody-fluxes, if in a Dysentery at any time, it is seldom, and then there is Choler, Flegm, and excrements of divers colours voided: and in a Dysentery there is pain and torment of the Belly, but in this none.

The Signs of the Causes are known by their proper Characters: For if the weakness of the Liver come from a hot distemper, there went a burning and consuming Feaver before, or there is green vomits or stools, thirst, and a Feaver, foulness of Body, and want of Appetite and stinking evacuations; but if it come from a cold cause, the stools are less stinking, neither is there thirst or consumption; the whole Body is colder and blewish.

Sometimes there comes a Feaver from the putrefaction of humors, which changeth the said symptoms; but you must examine the Causes foregoing, which will declare both distempers. Also in this cold distemper the Patients desire much strong Wine.

A moist and dry distemper are known by the contrary effects. A moist causeth more and oftner stools, very thin; but a dry, little and thicker stools, but there is also a great thirst.

Lastly, The External Causes are known by the relation of the Patient, and those that are with him.

A Bastard-flux of the Liver hath almost all signs of a Dysentery, only there is no pain of the Belly, nor pieces of flesh in the stools as in a Dysentery.

PROGNOSTICK. The Prognostick of this disease useth to be evil and deadly; for when a principal part is very ill, by consumption of the radical moisture, whose reparation is scarce to be hoped for, we can expect for the most part nothing but destruction, especially when the disease comes of heat.

When this disease comes in Feavers, there presently follows a melting of the Body, and great putrefaction, which presently kills the party: For in malignant and pestilent Feavers, the danger is increased according to the evil condition of the Cause. But when this disease comes of a cold distemper, it useth to last longer, and turn into an incurable Dropsie.

Lastly, A Bastard-flux of the Liver, although it be dangerous, yet is it less than a true, because it comes only from a simple distemper and evil disposition of the Humors, the tone and strength of the Liver remaining sound, and may be cured by taking away the Causes that defile the Blood.

CURE. The Cure of this disease is wrought by Medicines that strengthen the Liver, correct its distemper, and stay the Flux. And because it comes oftneft of a hot distemper, therefore we will first speak of the Cure of that distemper, because it comes seldom of a cold Cause, and is to be cured as a Dropsie.

First therefore (although Evacuations seem to be needless, by reason of the greatness of the Flux) you may give Rhubarb either alone, or with Myrobalans, as in the Cure of the Dysentery, because it doth strengthen the Liver, and the rather if you find any filth in the stools; for many Patients have been cured by only one scruple of Rhubarb given many days together in Conserve of Roses.

Clysters are here of little worth, because the Liver is affected; yet sometimes you may give one of Chalybeat or steeled Milk, or of a gentle astringent Decoction, lest the Guts should be too much relaxed.

But you may make Juleps to strengthen the Liver, and correct its distemper, thus:

Take of Succory, Graminis, (or Dogs Teeth) and Sorrel Roots, of each one ounce: Endive, Succory, Plantane and Dodder, of each one handful: Sea-wormwood half a handful; red Sanders one dram and an half; the shavings of Ivory and Spodium, of each two scruples: Coriander seeds prepared one dram: red Roses one pugil: boyl them to one pint and an half; dissolve in the straining Syrup of Quinces, and simple Syrup of Vinegar, of each two ounces: Make a Julep for four Doses to be taken morning and evening. Or,

Take of Plantane Water four ounces: Syrup of dried Roses one ounce: Spirit of Vitriol as much as will make it moderately sharp, make a Julep to be repeated often.

He may also take of these Syrups following often in a spoon:

Take of Syrup of Myrtles, Quinces, and dried Roses, of each one ounce: the Syrup of Succory simple or compound with Rhubarb, one ounce and an half: Mix them.

There is an excellent Syrup made of the Tincture of Roses, made in Rose-water, and with Sugar of Roses brought into a Syrup.

Also this following Powder given to the quantity of half a dram, or a dram once or twice in a day in a rear Egg, Broth, or other fit Liquor may be used with profit.

Take of Plantane and Sorrel seeds, of each one dram: Endive, Purslane, Dodder and Coriander seeds, of each one scruple: red Roses, and Troches of Spodium, Gum Tragacanth torrifed, of each half a dram: the inward skins of Hens Gizzards dried, half a scruple: Make a very fine Powder.

Or the Lozenges made of the three Sanders, with a double quantity of Rhubarb given to two drams at a time are good to strengthen the Liver; as also this following Opiate:

Take of Conserve of Succory Roots one ounce: Conserve of old Roses half an ounce: the pulp of Currans six drams: Crocus Martis one dram: prepared Coral, shavings of Ivory and Hartshorn, of each one scruple: with the Syrup of dried Roses make an Opiate, adding half a scruple of Spirit of Vitriol, of which let him take the bigness of a Chesnut three hours before meat. You may add the Liver of a Wolf prepared, which is a specifical proper Medicine according to divers Authors.

Raisins of the Sun, because they are good for the Liver, are commended in this disease, therefore you may eat them in great plenty with their stones; which that they may be better taken, may be beaten first in a Marble Mortar.

Or make a Rob or Syrup of Raisins, boiling them in red Wine, if it be not too hot, and then straining out the Juyce, and boiling it again till it is thick: which you may use alone, or in form of an Opiate, with these following.

Take of Currans half a pound, boyl them to the thicknes of a Pultis in old Wine; pass them through a sieve, and mix with the straining, candied Citron peels half an ounce: the powder of the three Sanders and Diamargariton frigid, of each one dram: Coral prepared, and red Roses of each four scruples: the Liver of a Wolf prepared three drams: Make an Opiate.

The Syrup of Coral is very excellent to strengthen the Liver, and stay the Flux thereof; but the Tincture thereof is far better: As also the Extract or Magistery given in Plantane Water.

The Juyce of young Nettle-tops given either by it self to two ounces, or with Water and Vinegar every morning for three days together, stops the Flux, and purifieth the corrupt blood.

But

But because in this disease the Body is much consumed, a restoring distilled Water that will also stay a flux, either must be give often by it self, or with other Drinks.

Take a fat Capon, and a Partridge, and pulling off the Feathers and the Guts out, fill their Bellies with Succory, Agrimony and Snails, of each one handful: Conserve of Roses three ounces: Plantane and Coriander seeds prepared, of each two drams: Citron Myrobalans one dram: Blond-mort half a handful: the Troches of Amber and Spodium, of each four scruples: the Powder of the Electuary de Gemmis (or precious Stones) the three Sanders, and Diamargariton frigid, of each one dram: Sprinkle them all with astringent Wine, and putting them into the bellies of the Fowls: boyl them in a close Vessel in four pints of Water, till half be consumed: then put them all in a Glass Limbeck with three ounces of good Wine; distil them in Balneo Mariæ for the use aforesaid.

For Drink, let the Patient take the Tincture of Roses, or the Decoction of Succory and Dog-tooth, with Syrup of Quinces, and some few drops of Spirit of Vitriol.

Things made of Barley, Almonds and Rice, are best in Meats.

Outwardly to his Belly apply those things which were prescribed in the Cure of a Dysentery, with some things for the Liver, as Wormwood, Roses, all the Sanders, Spodium or burnt Ivory, &c. Which anointings of the Belly must reach to the Region of the Liver.

You may also apply the following Epitheme to the Liver:

Take of Endive and Succory, of each one handful: Dodder, and both sorts of Wormwood, of each half a handful: red Roses one pugil: red Sanders one dram and an half: Spodium two scruples: boyl them to one pint and an half, and dissolve in the straining two ounces of Rose Vinegar: boyl them again gently, and make an Epitheme.

Let the same part be anointed with the following Oyntment:

Take of Cerat of Sanders two ounces: Oyl of Quinces and of Wormwood, of each three drams. Mix them for a Liniment.

Lastly, If the Patient be troubled for want of sleep, as is usual, because this kind of flux is most in the night, you must use Narcoticks, such as were propounded for the former fluxes.

CHAP. IX. Of the Worms.

Although Worms breed in divers parts of the Body, yet because they are more usual in the Guts than in other parts, therefore we will speak only of those.

By some it is questioned, to what kind of Disease that is preternatural, the Worms are to be referred? But we can take away all occasion of doubting, by saying, that after a divers consideration they may refer to all kinds of Diseases; for as they prick and pull the Guts, or obstruct them, and produce other diseases, they may be said to be causes of diseases. But as they are substances added to those which ought naturally to be contained in the Guts, they are reckoned by Galen in the number of those diseases which are in the number increased wholly against Nature, as the stone also. And lastly, as they are sent preternaturally by the Belly or the Mouth, they are to be referred to the fault in Excretion, or sending forth.

Galen in his Comment upon the Aphorisms, Aphor. 26. Sect. 3. propounds three kinds of Worms: The round Worms, which are often bred in the Guts, and get often up into the Stomach; the Ascarides, or little worms like small threds, which use to lie in the inferior part of the thick Intestines, and over against the Sphincter Muscle; and the broad worms, called Fascia, because they are long and broad like Childrens Swathing bands. This kind is more rare to be seen than the rest, and a Physician shall scarce see them in his practice twice or thrice in a year, yet there are great Controversies among Authors about them; some say, it is one worm only; some that it is made of many united, which they call Cucurbitinos or Gourd worms, and say that they are parts of the Broad worm; others make a fourth kind, containing the Gourd worms; but we do not intend here to shew their Reasons, and several experiences they have so much boasted of, the curious Reader may search for his better satisfaction, Rondoletius, Platerus, Sennertus, and many others.

CAUSES. Moreover, There is a great controversie of the Causes of Worms; some say they come of putrid heat; others from the Natural; others say that both concur for the productions of them.

The first say, that all Insects or Vermine come from corruption, according to Aristotle. The second say, That putrid heat is strong, fiery and destructive, and therefore is not fit to produce a live body. The third say, to reconcile the former, That the Matter is disposed by the putrid heat to generate worms, and the Natural heat doth turn it so prepared into Worms by way of concoction.

But this reconciliation will not hold, because according to the Axiom in Physicks, it is the property of the same thing to dispose of the matter, and bring in the form, and therefore the preparation of the

the Matter, and the introduction of the form, ought to be from the same agent. Besides, worms breed in Carcasses where there is no native heat; we may say that the heat which is putrid, in respect of the matter putrifying, is native in respect of the worms, because the natural and putridinal heat differ but in degree, but divers degrees of heat are required for the generation of divers creatures; and therefore heat which is putrid in respect of us, may be natural in respect of another creature; So the heat which is natural to a Lion, would cause Feavers in us: and by consequence is putrefactive: Many flie to the heat of the Sun, which is the universal Cause of all Generation; but we must always acknowledge a particular cause, from whence the effect is immediately produced, by the Concurrence and Co-operation of the universal cause: but here is a greater difficulty, because it is a common Axiom or Theorem, That nothing can beget a thing more noble than it self; and therefore heat is not the chief agent in breeding of worms, which are the prædicament of substance, and heat is but an accident; and whatsoever is spoken of the Sun, the form of a worm is more noble than the form of the Sun, because it is the form of a living creature; and that of the Sun is *Forma mixta*, or the form of a mixed Body only; This doubt brings us into that large and weighty Disputation of an Equivocal Generation, in the Circuit whereof very excellent Philosophers have writ whole Volumns, to which we send our Reader, and chiefly to *Fortunius Licens*, his Book of the *Spontaneous Generation of Living Creatures*: Let it suffice in this place, that to say, Many of their Opinions are brought to this. They believe Seeds of many things to be in divers Substances, which according to their divers Changings come to light, even as the matter is more or less disposed by putrifaction, or other alteration to receive this or that form; and the Seed which is more agreeable to that disposition brought into act, and bringeth into the matter a form proper to it self. This Opinion doth not much differ from the old Philosophy, which teacheth, That Forms proceed from the power in the Matter: but they think it safer to hide the Seeds of things in their Matter, which are truly efficient, than to acknowledge only the power of the Matter, which hath no power to be an efficient, for we must find out some efficient with the power of the Matter, which may raise a Form from it, or rather introduce or bring Form unto it.

CAUSES. The Material Cause of worms is commonly sweet Flegm which groweth putrid, by which it gets a disposition to be turned into worms; but we may think it no way necessary, that food which will breed worms, should be first turned into Flegm: For worms may breed of their immediately being putrified, as we see in Fleish, Cheese, Chestnuts, Apples, Pears, Cherries and other Fruits which bring forth worms by being putrified: So it is in our Bodies, especially in Children which are given to Gluttony, and eat the aforesaid things, and take new commonly before the old is Concocted. Hence it is, that they putrifie and breed worms.

But let young Physicians observe this, That sucking Children that eat meat are most troubled with worms, and because their stomachs are not able to digest it, therefore it is corrupted and turned into worms; moreover, Milk is quickly digested in the stomach, and presently sent to the Guts; and if it hath Meat mixed with it, which could not so suddenly be digested, it will be sent into the intestines with the Milk, and therefore corrupt and breed worms. And observe, That Worms never breed of Milk only, so that as often as you consider the disease of an Infant, take notice, Whether it have the worms or no, which Women always proclaim and say all their diseases come from thence, as they ascribe all diseases of Women to the Mother; and the Physician may certainly pronounce that the Child hath not the worms, if it live only upon Milk, and have eat neither Meat nor Broth: *Galen* in his *com. aph.* 26. *sect.* 3. taught this, saying, That in Children that suck Milk only, no worms do breed; the Reason whereof is not plain. Many say, That in sucking Children the heat is not strong enough to breed worms: and this is confirmed by *Galen* in the place cited, where he saith, That strong Heat is required for the Generation of worms: and thence he saith it comes, that worms are more in Youth than Infancy: which also *Hippocrates* teacheth in the *Aphorism* aforesaid: and which it seemsto gain-say in *lib.* 4. *de morbis*, where he saith, That worms breed in Children before they are born; but these have not stronger heat than they that suck: And *Hippocrates* gives another Reason why children in the Womb should have worms, because their Excrements are retained: but when they are born they do not breed worms, because then their Excrements are not retained. But this will not satisfy, because then oftentimes in children that suck, the excrements are retained, and yet they have no worms while they live only upon Milk: therefore since the aforesaid reasons do not content solid wits, we expect the new thoughts of Wise men touching this matter; and in the mean while, we will briefly declare our Opinion, and leave it to the Judgement of the Learned: we say then, That Milk putrifying doth grow fowr, and then is unfit for to breed worms, but rather hindreth them; for it is known, that all fowr things do kill worms: Hence it is, that the Juyce of Lemons is so ordinarily given against them, and in ordinary drink a little Spirit of Vitriol to sharpen, doth wonders.

It is commonly thought, That among the material causes of worms, Sweet things are the chief: which is to be doubted of, because it is confirmed by a common Axiom, That sweet things do easily turn

turn into Choler, and Choler by its bitterness doth kill worms: but we can easily answer this doubt thus; In Cholerick Bodys, and such as are sharp with heat, sweet things do easily breed Choler, because by over Concoction they grow bitter, as we see daily in artificial concoction: but in other constitutions that are not Cholerick, sweet things do not breed Choler, But rather Flegm, when they are sent too soon from the Stomach into the Guts, and so being crude, and only half concocted, they putrifie, and become a fit matter to breed worms.

But there is yet a difficulty concerning Sugar and Hony, which since they have a substance not subject to putrification; but rather that doth preserve other things from it, cannot breed worms. This Reason convincing, we say that Sugar and Hony will not breed worms, because their substance is corruptible; but being once bred, they do feed and maintain them, because the worms loving sweet things do stir themselves at the approach of Hony and Sugar, and get into the Stomach, where they grow with speed; from whence those symptoms do arise which are proper to worms.

SIGNS. The Signs of worms in the Guts are divers, not all in all people alike. The usual and most ordinary signs are; A stinking breath somewhat fowr (as the Women call it) and stools like Cow dung, of a gray colour like Potters Earth dissolved. Other signs are less usual, as a continual Fever, which is often in a day more violent from the motion of the worms, which heaviness, cold sweat sometimes and fainting, loathing, vomiting and unquenchable thirst. The Pulse is unequal, the Cheeks are by turns red and blew, the Eyes shine, the Nose itcheth, the Teeth gnash, and sometimes chatter, there is a small dry Cough and much spittle: sometimes there is heaviness of head, and sleepiness; sometimes doting, and Epileptick Convulsions: There is often a pain in the belly, by gnawing, sometimes by inflammation and distension or stretching forth like men in dropsies: sometimes there is starting in the sleep, and some tremble and rise up, and fall asleep again; sometimes all the body plineth, and the Patient hath a Dogs Appetite, insatiable, which is most usual in the flat worms, which eat up all the food. Moreover, If Gourd worms, called *Cucurbitini*, be voided, they are a sign of flat. The *Ascarides* are known by the itching of the *Anus* or Fundament, and the Excrements are many times filled with them.

For a Conclusion, The consuming, putrification, and eating away of the Gums, is to be reckoned among the signs of the worms, which is confirmed by this following Observation: A certain boy was a long time troubled with eating away of his Gums, many Medicines both internally and externally were applied, and all in vain; at length he died: the body being opened, there were found so many worms, that in some places the bowels were eaten through, and many were found in the empty places of his Belly.

PROGNOSTICK. As for the Prognostick: Many worms are worse than few, great than little. Many times they are dangerous, and bring great diseases; as a strong Fever by fits, swooning, speechlessness, doting; epilepsie, cholick, and dogs appetite.

In the beginning of a disease it is evil for worms to come forth either alive or dead, especially if they come forth alone, and without dung: for when they are alive, and come forth, they signify great crudity, or want of nourishment: but dead, they signify great putrification, by which they are killed.

Worms in the declining of a disease, coming forth with the excrements, signify Health, if concoction appear: for it appears then, that Nature ruleth and mastereth the Excrements.

CURE. The Cure of the worms is by driving them out, because they are wholly against Nature, And this is done by purging Medicines, which kill worms, and evacuate the matter that breedeth them.

Rhubarb is the best, which you may give in a Flux or Fever. But you must first give things that kill them, or at least that drive them to the inferior intestines by things taken at the mouth, or those things that draw them down by Clysters.

The usual forms whereof are these:

Take of Dogs-tooth and Purslane water, of each one ounce and an half; Syrup of Lemons one ounce, Confectio de Hyacintho one dram, the Powder against Worms one scruple. Make a Potion: Give it presently, and then this Clyster:

Take of whole Barley, Bran, and red Roses, of each one pugil: Liguoris and Raisins scraped and stoned, of each half an ounce: Boyl them to half a pint, or three quarters of a pint: Dissolve in it strained, red Sugar one ounce, and one Yelk of an Egg. Make a Clyster.

You may add Cassia or Diacatholicon, if you desire it stronger.

After those Medicines have been given once or twice, give this Potion:

Take of Rhubarb one dram, yellow Sanders half a scruple: Infuse them in Water of Dogs-tooth or Purslain, two or three ounces: strain them, and dissolve in it the powder of Rhubarb, and powder against the Worms, of each one scruple: Syrup of Roses one ounce: Mix them for a Potion.

Or,

Take of the powder of Rhubarb and Coralline, of each half a dram, more or less, according to the age: Dogs-tooth Water two ounces, Syrup of Violets one ounce. Make a Potion.

If the Feaver be not great, two drams of *Hiera Picra* more or less, are to be mixed in a Potion: for by its bitterness it killeth and expelleth Worms excellently.

If these things will not Cure them, use these following:

Take of Dogs-tooth and Sorrel water, of each one ounce; Endive, Succory, Sorrel and Purslane, of each one handful: the tops of St. Johns-wort, Scordium (or Water Germander) and Centaury the less, of each one pugil: Coralline three drams: boyl them to a pint, dissolve in the straining three ounces of Syrup of Lemons. Make a Julep for three or four Doses, to be taken twice in a day.

Take of the Oyntment de Artania (or Sowbread) three ounces: Quick-silver one dram: mix them, and anoint the whole Belly.

Then purge again, and often, till the body be cleansed.

And you may add to the former Decoction, Senna, Agarick, Rhubarb, &c. and give it but once in a day.

Rondeletius highly commends the Electuary *Diacarthamum*, as an excellent Remedy to expel Worms, and to purge flegm and corrupted Chyle, of which worms breed, and are nourished; as also he commends the infusion of Agarick in Oxymel. Which Remedies are proper, if there be no Feaver.

But because oftentimes the diseases of the worms in some children cannot be cured without much labour and time, there are many Remedies found out by Authors, both internal and external.

Among the Internal, first we will treat of Powders, whereof there are divers Forms in Authors.

The chief are these following; the dose whereof is from one scruple to a dram, according to the age of the Patient in some convenient Liquor.

Take of Worm-seed half an ounce: Coralline three drams: Harts-horn two drams. Make a Powder. Or,

Take of Worm-seeds, Coralline and Harts-horn burnt, of each equal parts. Or,

Take of *Hiera simplex* two drams: Worm-seed, Scordium, the lesser Centaury and Coralline, of each one dram. Make a Powder.

Take of Rhubarb and Agarick, of each one dram: Troches of Alhandal one scruple: *Diagridium* half a scruple, Coralline and burnt Harts-horn, of each half an ounce: Myrrh, Zedory and Tansie flowers, of each one scruple; Salt of Wormwood and Tartar, of each half a dram. Make a fine Powder.

In the use of these Powders observe that they which are made of hot things, are to be given seldom, and in small quantities to hot Natures, and in Feavers.

Women use to give to Children troubled with the worms, Worm-seed made up with Sugar, or mixed with Hony; which is an excellent Medicine, because the worms desiring sweet things, take in the Hony, and withal the Worm-seed, whereby they are destroyed.

But because Worm-seed is very hot, it may be made temperate by infusing it two hours in Vinegar, and after mixing it with boyled Hony into the form of an Opiate, which *Amatus Lusitanus* doth praise as a principal Medicine against Worms.

Burnt Harts-horn is commended by *Forestus*, given with Raisins, or otherwise, and some have been cured with that alone. But it is chiefly good for them who have the worms, and a flux withal. In which diseases coming together, he commends also the Juyce of Plantane, and the Decoction of Knot-grass given to drink. To which may be added Topicks applied to the Belly, partly astringent, and partly having vertue to kill Worms.

Women do use common Oyl given with Wine, for that Oyl stops the pores of the Worms, and so choak them for want of breath, and Wine kills them by its sharpness. But when there is a Feaver, it is better to give Oyl with the juyce of Lemons or Pomegranates; or which is better, Oyl of bitter Almonds with the said juyces, or Oragne flower water.

Stocheus in his Empirical Medicines commends the oyl that is taken out of a dried Hazel stick, if it be given but a drop or two at a time to a child, or to a youth, three or four in a crum of Bread; For (saith he) it doth immediately kill them, and cast them forth by stool; also by but touching of Worms or Lice out of the body, it killeth them. The best Authors will have this Oyl of Hazel to be the *Oleum Heracleinum*, by which *Martin Ruland* did cure Children of the Worms in a moment, by anointing only their Lips and Navils, as you may see in his Centuries.

But we have found by Experience, that the Oyl of Juniper given but a drop at a time in Broth, to be excellent for Children so troubled, if they have not a Feaver.

But Quick-silver would exceed all, if we durst give it inwardly; which great Doctors say may be done. Some of whom I will mention, so that they who please to try it, may have Authority for it.

Mathiolus in his fourth Epistle to *Stephanus Laureus*, the Emperors Physician, saith, Because Quick-silver (as *Dioscorides* saith) doth no otherwise kill, but by tearing the Guts with its great weight

weight: we fear not that it will do it in a small quantity, especially because its weight and roundness will easily carry it through the Body. Therefore let us not wonder why Brassavolus, that Famous Physician of our Age hath written, that he gave Quick-silver to Children without any inconvenience. And also a Padua Physician used it with good success, but never would tell us the way of giving and preparing of it. And I, though I never gave it, have seen Midwives give a scruple, or half a dram to Women that had hard labour, without inconvenience, and always with good success. Thus Matthiolus.

Fallopins in his Treatise of the French Pox, Cap. 76. If (saith he) Quick-silver be drunk down, it doth not so much as when it is used with an Oyntment; I have seen Women to cause Abortion, take a pound thereof without hurt. I give it to Children for the Worms, and it doth bring no symptom, but only kill the Worms.

Platerus in the Cure of the Worms saith the same; Give a drop or two, or half a scruple of Quick-silver, and it kills the Worms, or makes them crawl out of the Body, and it may be done without hurt, as we shewed elsewhere.

Fabricius Hildanus, in his 71. Observation, Cent. 2. saith of a Woman troubled with the Worms, sent to him by Gilbert Saracenus, thus: Having reckoned up many Medicines, to these (saith he) I added the excellent Medicine of Quick-silver, a dram and an half strained through Leather, and yet she was not freed of them.

John Baptista Zappata, in his Book of Womens Secrets, Chap. 5. tells many famous Stories of the Cure of Worms by Quick-silver, when Aloes and Wormwood would not do it. He shews two ways of giving it.

The first is this:

Take of Quick-silver one dram, but a scruple or two for little Children: Benjamin half a scruple, four or five drops of Aqua-vita: mix them in a glass Mortar with a glass Pestle, then put to it a little Conserve of Roses or Violets for a Bolus, which let the Patient take in the morning by it self, or with a little Bread.

The second way is this:

Take a little course Sugar, and three or four drops of Spring Water; mix them in a glass Mortar till they are like Honey: then put to it as much Quick-silver as was aforesaid; mix them together with six or seven drops of Oyl of sweet Almonds, which will keep the Quick-silver from coming again to its body: And with a little Conserve of Roses, make a Bolus.

Barcellus in his Book called the Genial Garden, saith thus. Quick-silver, which some account Poyson, is safely given against Worms, and it is accounted so certain a Medicine in Spain, that the Women there give three grains thereof to Children which peck up their Milk. I cured a Widdow which vomited nine days together by reason of Worms, and scarce eat in three days, neither could retain any thing she took; to whom I gave two scruples of Quick-silver, with a little Conserve of Quinces, and she voided downwards above an hundred Worms, and was cured the same day, and went about her business, to the great admiration of her Parents, being formerly weak and lean. I have given it also to others, and with good success always; and I keep continually at home Quick-silver infused in Water, which Water I give to Children for Worms; nor did I ever receive any discredit thereby. Matthiolus used the same, so did Horatius Angenius, and many other Famous Men, who all do extol the benefit of this Medicine. You may give it to Children in substance one scruple, and to Youth two scruples, or a dram. It is mortified and corrected with red Sugar in a glass Mortar, wherein it must be so long stirred that it be invisible; and lest it should return to its former condition, you may add thereto two drops of the Oyl of sweet Almonds. Give it with Sugar of Roses, Violets or Quinces fasting. Thus Barcellus.

Sanctorius in meth. vitand. error. lib. 5. cap. 11. saith, That except we use strong Medicines to kill Worms, as washed Aloes, or a scruple of Quick silver, with a little Turpentine and Aloes made into a small Pill, we do nothing.

They who fear to use Quick-silver crude, may give it prepared, as Mercurius Dulcis, not only thrice, but six times calcined (for by often preparation the malignity of it is abated) with some few grains of Diagridium, to carry it sooner out of the Body, and expel both the Worms, and the Matter of which they breed.

You must inlarge or diminish the quantity, according to the age of the Patient. As for example, to a Boy of eight or ten years old, it may be thus given:

Take of Mercurius Dulcis twelve grains, Diagridium six grains: make a Powder to be given with a roasted Apple and Sugar, or the like.

For ordinary drink, the water made of Quick-silver, which was formerly mentioned, is very profitable; or that in which Quick-silver hath been shaken in a glass half full, for the space of one hour.

Also water wherein melted Tyn hath been often quenched. But if you will rather use

Quick-silver, it is better to let the Water boyl with it, and so it will be stronger.

Also Spring-water made sharp with some few drops of the Spirit of Vitriol or Sulphur, is of no less force. For sharp things do properly kill Worms, and the Water is to be made more or less sharp according to the age of the Party.

The Decoction of Dog-tooth with Coriander-seed prepared, is used vulgarly for ordinary drink mixed with Syrup of Lemons, or of Pomegranates: Or you may put Sugar and a little Vinegar in the Decoction.

While the aforesaid Remedies are used, you must give Clysters often, the whole time of the Disease, first made of sweet things to attract and draw down the Worms, as at first we said: which may be made not only of a Decoction of Liquoris, Raisins and Figs, but also of Chicken-broth and Sugar, and Honey of Roses, or of Milk if there be no Feaver, otherwise it will be easily corrupted.

But if we conjecture that the Worms are already in the thick Guts, because then they can scarcely ascend into the thin Guts, you may give Clysters to kill them, made thus:

Take of Dog-tooth Roots one ounce; Reets, Mallows, Pot Mercury and Purslane, of each half an handful; Coralline one pugil, Coriander seeds prepared and Wormseed, of each two drams: boyl them in a quart of Water; In one pint of the straining, dissolve two ounces of Oyl of Roses, Cassia newly drawn six drams; Hiera Picra two drams, Honey of Violets one ounce: Make a Clyster.

If you will have a stronger.

Take of Gentian Roots one ounce; common Wormwood and Southernwood, of each one handful; the lesser Centaury half a handful; Lupines half an ounce; Wormseed two drams: make a Decoction. In as much of the straining as you think fit, dissolve the Oyl of Wormwood one ounce and an half; Salt one dram and an half: make a Clyster which must be repeated, and in the last that the Worms may be brought forth after they are killed, dissolve of Benedicta Laxativa, and Hiera Picra, of each three drams, or half an ounce.

If there be a Flux of the Belly, give this following Clyster:

Take of Tormentil Roots, and of round Birth-wort, of each one ounce and an half: Pomegranate Peels and Myrobalans, of each one ounce; Pease a small handful, Myrtle-berries one dram; red Roses one pugil: Make a Decoction, dissolve in the straining of Oyl of Mints, or of Wormwood one ounce: make a Clyster.

Outwardly may divers Topicks be applied, not only those that were mentioned, but these following:

Take of Gentian Roots one ounce, Birthwort Roots six drams: Orange Peels one ounce: Coloquintida one dram, burnt Harts-horn two drams, Saffron half a dram: make a Powder, which mix with Oyl of Wormwood, or bitter Almonds, and with a little Wax make an Unguent.

Also common Oyl boiled with the Pulp of Coloquintida is powerful.

Also Oyl of Wormwood and St. John's-wort must be applied to the whole body morning and evening.

Take of Oyl of Wormwood, Mints and bitter Almonds, of each half an ounce: the Juice of Wormwood and Rue, of each two ounces: Tormentil, white Dittany and Zedoary, of each half a dram: Oxe Gall three drams; Aloes one scruple; Powder them, and with a little Wax make an Oyntment. Or,

Take of Coloquintida six drams, Powder it, and with an Oxe Gall lay it to the Navil, by which both the Worms are killed, and the Belly kept loose.

Take of Myrrh seven drams, Mastich eight ounces, Aloes eighteen ounces, common salt one pound: bruise them all, and distil them by a Retort with a gentle Fire, and great diligence; first you will have a Water, then an Oyl; with which if you anoint the Navil of a Child, all putrefaction will be cleansed which is in the Mesentery.

Also you may make a Cataplasm thus.

Take of the Meal of Lupines two ounces; Myrrh and Aloes, of each two drams: Oxe Gall as much as is fitting; Oyl of Wormwood two ounces: make a Cataplasm for the Belly.

If a looseness hath continued long, apply this following Cataplasm.

Take of Oyl of Quinces and Wormwood, each one ounce; the Juice of Purslain extracted with Vinegar, one ounce and an half; Pease flour an ounce, Lupine flour half an ounce, red Coral and burnt Harts-horn, of each three drams: mix them together with as much Turpentine as will make a Cataplasm.

A Cataplasm also made of only Hiera Picra, is most powerful.

Sometimes you may use Fomentations, when there is a great stretching and puffing up of the Belly. Made thus:

Take

Take of Wormwood, Southernwood, Tansie, Scordium, Mallows and Violets, of each one handful: beaten Lupins half an ounce, Centaury one pugil, boyl them in Vinegar and Water, and foment the whole Belly hot therewith very often.

Finally, For flat Worms and *Ascarides*, or Arse-worms, Clysters made of bitter things are good; to which you may add the purging things aforesaid, while the filth of which they breed be purged away.

CHAP. X.

Of the Immoderate Flux of the Hemorrhoids.

ALthough the moderate flux of the Hæmorrhoids be healthful, and preserveth a man from many and grievous Diseases, as *Hippocrates* taught in *Epidemii*, and in his Aphorisms, as from a Pleurisie, Peripneumonia, or Inflammation of the Lungs; Nephritis, or the Stone in the Kidneys; Madness, Melancholy, and innumerable others: Yet the Immoderate Flux is most dangerous, and brings other pernicious Diseases, as weakness of the whole Body, Coolness of the Bowels, and especially of the Liver; an Atrophy or want of nourishment, an evil Habit, and Dropsie by the loss of Natural Heat, by spending too much blood, which is the Treasure of Life, and the Cherisher of the whole Body.

CAUSES. And this Immoderate Flux hath the same Causes which use to provoke other sorts of bleeding; namely, Blood offending in Quantity or Quality. When it offendeth in Quantity, and is brought in great plenty to the Hæmorrhoid Veins, it doth violently dilate them, and open their Orifices, by the strength of the Expulsive Faculty: but sometimes too much blood coming thither, doth oppress the Retentive Faculty.

Hence it comes that she being defective in her duty, there is a great Flux which must be restrained by art.

But while Blood offends in Quality, as sharpness or thinness, it stirs up the Expulsive Faculty to cast forth by those Veins not only the unprofitable but profitable Blood; the blood causing this Flux is made sharper by a mixture of Choler or sharp Water.

DIAGNOSTICK. This Immoderate Flux is known by the loss of strength, and a sense of weakness coming from a long flux, and loss of blood: As also from an evil yellowish colour of the whole body, as if it were the Jaundice.

If the Disease come from quantity of Blood, there went before Causes of increase of blood, and the Patient bears it well in the beginning, and is more chearful; but afterwards the Flux continuing he grows weak and dejected.

But if it comes from sharpness and thinness of the Blood, there went before Causes that breed choler or sharp water, the Body is of a Cholerick Constitution and burnt: the Blood floweth violently; and it is very red, shining, and as it were flaming, when otherwise offending only in Quantity it useth to be black and melancholy.

PROGNOSTICK. The Prognostick is gathered easily from what hath been said, when we reckon up those grievous Diseases which come from this.

CURE. For the Cure: The Blood must be stanch'd, or moderated at least, which must be done by Repulsives, Derivatives, Thickners and Astringents.

And first, Phlebotomy is a Revulsive Remedy in every Flux of blood, therefore in the Hæmorrhoids thus flowing, draw blood from the Arm; and more plentifully, if there be signs of fulness, and much hath not been lost, otherwise take but a little, and at divers times.

Also Frictions and Ligatures of the superior parts do revel the blood, as also Cupping-Glasses applied to the shoulders, Breasts and Hypochondria, which for the better Revulsion may have Scarification in the shoulders, but they must be often applied to the places afore-mentioned.

Also a gentle Purge doth derive the Cholerick Humors which make the blood so violent in the Guts; and this must be made of purging things that have an Astringent Quality, as Rhubarb, Myrobalans and Tamarinds, such as were prescribed against vomiting of blood: And *Mercurialis* teacheth, that Tamarinds have an especial power to stop this kind of bleeding, whether they be taken boiled, or in substance.

Also sharp French-prunes, which are somewhat like Tamarinds, being often eaten before Meat, are good; and their use is convenient to keep the body loose: and if these will not suffice, you may add other things which were propounded for the cure of a Belly bound: because by use of Astringents the Belly will be bound, and by straining to discharge the Excrements that are hard, the Veins will be more open, and bleed more.

After-

Afterwards you must use those things that thicken the blood, and astringe the loose Veins, such as were prescribed for vomiting and spitting blood in form of a Julep, Powder, Opiate, and the rest; coming to Narcoticks, as is there said, if great need require.

And besides those Remedies, the Pills of Bdelium are much commended by Authors; which *Rondeletius* rejecteth, because the Apothecaries have not true Bdelium, and use Myrrh instead thereof, which causeth bleeding. But *Solenander* opposeth him, saying by Experience, that he hath found these Pills made of ordinary Bdelium, so clearly to produce their effect, that he will not doubt of the Composition; Except some should think that the Myrrh is made dull by drying things, and astringents that are mixed therewith. To this we may add what *Bauderon* in his Dispensatory, and other Modern Writers say, That we have true Bdelium brought from India at this day, which is hard to be distinguished from Myrrh.

The use of these Pills, is after this manner: -

Take of Pills of Bdelium one dram: the Troches of Amber, and Terra Sigillata, of each one scruple: With the Mucilage of Quince seeds extracted with Rose-water, make a mass of Pills, of which let him take a scruple twice a day before Dinner and Supper.

At the same time you must use Topicks made after divers forms.

A Fomentation of Mullein boiled in Smiths Water, or astringent Wine is best; for that Plant is proper for the pain and bleeding of the Hemorrhoids. But you must diligently observe in the use of Fomentations, that they be either cold or moderately hot.

A more compound Decoction may be made thus:

Take of Snakeweed Roots half a pound, Plantane, Mullein, Bramble and Oak-buds, of each two handfuls and an half: Sumach berries, Pomegranate flowers, green Gauls and Pomegranate peels, of each one handful: Myrtles half a dram: red Roses two pugils: Allum one ounce: boyl these in three parts of Forge-water, and one of old red Wine for a Fomentation.

Martin Ruland commends a Fomentation made of two bags, applied hot by times, made of red Cloth, and filled with beaten Acorns and Oak-leaves, and boiled long in strong Vinegar.

Of the Decoction before-mentioned, with a greater quantity of every Simple, you may make a Bath to sit in, which the sick man must use somewhat cold, as is said of a Fomentation.

Unguentum Comitisse is very good, if you anoint the Back and Hemorrhoids therewith; or you make for the present this following:

Take of Oyl of Roses, Olives and Myrtles, of each two ounces: the Juice of Plantane and Mullein, of each one ounce and an half; red Wine Vinegar one ounce: boyl them till the Juices are consumed, then add of Bole, Sanguis Draconis, Frankincense, and drops of Iron finely powdered, of each one dram: Wax as much as will make an Unguent.

Rondeletius approves rather of those Oyntments which are made without Oyl, because they are more astringent, and they are thus made:

Take of the Juice of Plantane, Shepherds-purse and Mullein, of each two ounces: the simple Syrup of Vinegar three ounces: boyl them gently, then add Bole, Terra Sigillata, and Snakesweed Roots powdered, of each one dram and an half: Sanguis Draconis one ounce, Cerufs washed two scruples: mix them into the form of a Liniment.

If the Hemorrhoids be ulcerated, you may make this following:

Take of Oyl of Roses two ounces, Frankincense and Aloes, of each one dram: Sarcocol, Sanguis Draconis and Bole, of each half a dram: Spodium and Carabe, of each one scruple; white Starch three drams, Juice of Plantane one ounce. Make an Unguent.

The Fat of an Eel, which comes out when it is roasted; put to the Oyntments, makes them better by a proper Vertue.

Also you may with profit apply a Cataplasm to the said parts made thus:

Take of Bole, Aloes, Mastich, Frankincense and Sanguis Draconis, of each half an ounce; the stones of Myrobalans and Gauls, of each one dram: mix them with the white of an Egg, and Juice of Plantane. Make a Cataplasm.

Or the hairs of an Hare burnt, and Spiders webs mixed with the white of an Egg, will make a Cataplasm, which you must apply to the Vein where it is open, if it appears, or put it gently in.

Suppositories are good for this use, because they are put up into the part.

The Form of them is:

Take of Colophony and Frankincense, of each three drams; Bole half an ounce, Ceruse and burnt Lead, of each one dram; Acacia half a dram, powder them finely, and make them into a Suppository with Goats Suet.

Make Injections into the parts by a Syringe of the Juice of Plantane, and other things mentioned for a Fomentation. The blood of any Creature newly drawn, and injected while it is hot, doth wonderfully restrain any Flux of blood from the Belly.

The Lungs of a Sheep being hot and bloody, being fat upon, have great power to stop this Bloud.

Also Fumigations made of the Decoctions of the Fomentations aforefaid, are good for the same end. To which you may add those things mentioned in a *Dysentery*. As also this following:

Take of Frankincense, Aloes, Mastick, red Roses, Myrtles and Wormwood, of each half a dram: Troches of Carabe one dram. Make a gross Powder to be cast upon the hot coals, and let the fume thereof be received in a large funnel by a hollow Chair, tying a wooden or silver pipe to the narrow hole, and putting it into the Fundament.

A Fumigation made of Mullein is the best of all.

If you can apply Remedies to the Veins that bleed, it is best therefore that they may appear. And therefore let the Patient be laid upon a Table, and strain as if he were at stool till they appear: using an Instrument if there be need. And then apply the aforementioned Cataplasme of the Hair of an Hare and Spiders Webs, or other very drying Remedies; Bole, Allum, or burnt Vitriol. Also to touch the Vein with Oyl of Vitriol, is good; or in extream danger with *Aqua Fortis*.

Which things, if they prevail not, *Hippocrates* in his Book of Diet, in acute diseases, and of the Hemorrhoids, shews they way of tying, cutting and burning of them; which operation is out of fashion now, as being most painful and perilous. Although *Massaria* saith, that he once saw it, the story whereof will be profitable to be related; for by that you may learn the way of working, and the event. The History is this: Frederick Corcicus of Vincentia, first had the pain, then the immoderate flux of the Hemorrhoids: And when he had in vain tried many things, went to Padua; where the Physicians by a common consent, concluded that the blood must be stopped. But when many means inwardly and outwardly were in vain used, in the end finding no Remedy, they concluded to try this Manual Operation: But having no fit Chirurgion, they sent for a Neapolitan, who professed this Art, and he cut, tied and burnt the Hemorrhoids of Fabricius thus: First he bound him so, that he could no ways move, then he separates the Hemorrhoids from the Intestines; then with a Needle he passeth thorow, and seweth them, and tieth all about strongly: then cutting off the part of the Vein which is above the sewing, he burns it with a hot Iron. It was a painful Operation from the Ligature, Section and burning: So that Frederick had a Feaver, and great pain. But the Chirurgion gave him a few Medicines, by which he was freed both from Feaver and pain in a few days, to the admiration of all men there, and recovered from bleeding. But it is not to be omitted, how he being too confident, and neglecting bleeding and purging, which he stood after in need of, keeping no orderly diet; the next year he was taken with a pestilent Feaver, and died. From whence we may observe the Precept of *Hippocrates*, Aph. 12. Sect. 6. That one Hemorrhoid must be kept open. Except the Patient as *Aetius* observeth, had rather prevent the danger that comes by stopping of it by a good diet, exercise, bleeding and purging.

But in an ordinary Cure by Medicines, you must consider the Liver and Spleen, because the Meseraick Veins are inserted into them, especially if they be hot or weak. And therefore not unprofitably do we apply Epithems, or cooling and strengthening Oynments, such as were prescribed in the flux of the Liver, and shall more at large be laid down in the hot distemper, and inflammation of those parts. Sometimes the Obstruction of the Bowels and Meseraick Veins do cause this Disease, which are to be taken away for the Cure of the Patient. And we have sometimes done it with Pills of Steel, which are prescribed in the Obstruction of the Liver.

The whole time of Cure, let the Patient drink ordinary Iron Water, or the Decoction of Yarrow.

At the same time, above all things you must rectifie the blood, which is the chief cause of this flux: Therefore if it be sharp and cholerick, it is often to be corrected with the infusion of Rhubarb and Tamarinds. If it be hot and thin, with thickening and cooling Medicines: if watery, with dryers; if much with a slender Diet. For it is vain to think of stopping of the blood, except the original of the evil be first taken away. Which *Solenander* observed Conf. 22. Sect. 4. in this following History. I remember (saith he) that I had one Ann a Dukes daughter, of a great flux of the Hemorrhoids; and because she was far spent, I took much pains to stop the flux. But when I perceived that the first day after they were stopped, she began to swell about the heart. Being sent for again, the seventh day I opened the Veins again; nor could I safely stop them before I had given gentle Evacuations, and altering and strengthening things for the Liver.

After you have cured the flux of the Hemorrhoids, you must prevent their return; which is done by a good diet, and bleeding twice or thrice in a year, and with an ordinary Purge of a Magistral Syrup, or other Medicines, with an Issue made in the Leg, and the like; which are to be altered according to the divers dispositions of bodies. Moreover, Mineral Waters of Vitriol, Allum and Iron, are very convenient.

Fonseca commends the Decoction of the Mastick Tree, or the infusion of it in Wine, for a prevention, thus made.

Take

Take of the shavings of Mastich wood two ounces, Infuse them in twelve Pints of Wine twenty four hours in a warm place, then strain it, and drink of it a whole moneth for ordinary drink: for it hath strength to stop the Hemorrhoids, and strengthen the Stomach.

CHAP. XI. Of the Pain of the Hemorrhoids.

THe Hemorrhoid Veins that are in the end of the *Rectum Intestinum*, or streight Gut, sometimes do swell and cause very great pain.

CAUSES. This swelling comes of the same cause with the flux or bleeding of the *Hemorrhoids*, namely, of blood offending in quantity or quality, which if it findeth not a way, and cannot open the ends of the Veins, there it setteth, and by filling of the Veins causeth a tumor with Inflammation and pain. The principal Cause why blood cannot get out of the Veins, is the thickness of it, because it is Melancholy: for commonly the *Hemorrhoid* Veins, especially internal, are said to receive Melancholy from the Spleen, and sometimes to purge it forth.

DIFFERENCES. Authors give many differences of *Hemorrhoids*, from their greatness, number, figure and place; whence some are called great, others little; some more, some less; some are like Grapes, Mulberries, Warts or Bladders; thence termed *Uval*, *Moral*, *Verrucal* or *Vesical*. Some are External, some Internal.

DIAGNOSTICK. From these things the knowledge of them is easie, for from a Tumor in the outside of the Fundament, from its greatness, colour and consistence, the differences are known. And they are to be distinguished from other diseases which use to be in the Fundament, as *Rhagades*, *Clefts*; *Condylomata*, Swellings with Inflammation; *Thymi*, *Kernels*; *Fici*, *Piles*, and the rest.

Rhagades are certain Ulcers like Clefts in the hands and lips, from vehement cold. They have no likeness with the *Hemorrhoids*; but we will explain them with the rest, although they are properly to be referred to external diseases, that you may with the knowledge of the *Hemorrhoids* know all diseases of the Fundament.

Condylomata are certain Tumors of the skin, which being wrinkled, if it swell by Humors, it is called *Condyloma*. It is distinguished from a *Hemorrhoid*, because a *Hemorrhoid* is greater, black, and round in a Vein; but this is long, of the same colour, and not in the Veins.

Thymi are carnosous swellings, which are not only in the Fundament, but Privities of Men and Women like Warts, and like the flowers of Thyme, from whence they have their name. These are little, white, or reddish, without pain; but the *Hemorrhoids* are greater, black, for the most part painful.

Fici are fleshy swellings, but greater than *Thymi*: also they are blew and painful, and therefore more like *Hemorrhoids*; but they are distinguished from them, because they are all flesh; but the *Hemorrhoids* shew the Veins full, and enlarged at the ends. Moreover, *Fici* for the most part ulcerate, and are malignant, so they are like a Cancer.

Those Garuncles, or pieces of flesh which grow in the Fundament, are like these *Fici*, called *Crista* or *Tuts*, usual in *Italy*, but unusual among us, because they come from an impure and unnatural Lechery: they look like the Combs of Cocks, and thence they have their name: Because they are nothing like the *Hemorrhoids*, they need no distinction. But let this be for a Conclusion, all the aforesaid diseases are cured only by Chirurgery, so that a peculiar way is not to be laid down here.

PROGNOSTICK. As for the Prognostick, The swelling *Hemorrhoids*, they are seldom dangerous: but sometimes so inflamed, that you may fear a Gangrene: or else they extreemly torment the Patient.

Hemorrhoids, if they come to Suppuration, or an Ulcer, oftentimes leave a Fistula, which is many times incurable, by reason of the tenderness of the part, and the great moisture which hindreth the healing of it.

CURE. For the Cure hereof, first let blood in the Arm, and make a revulsion from the part affected. Which being sufficiently done, you may also open the Vein in the Ankle for revulsion.

The same is done by Cupping of the *Hypochondria* or Revulsion, and the Hips for Derivation.

Strong Purges are not good in this case, because they draw the Humors to the part, and increase the Tumor. But you must constantly keep the body open, because hard Excrements, and voided with straining, increase pain. An Infusion of Cassia given morning and evening, is good for this, thus made.

Take of Lettuce, Bugloss tops, Mallows, of each one handful: Liquoris scraped, and Raisins Stoned, of each half an ounce: Bugloss, Borrage and Violet flowers, of each one pugil. Boil them to eight ounces. In the straining infuse Cassia new drawn one ounce: strain it, and clarify it:

it: and then put thereto one ounce of Syrup of Violets. Give it twice a day as aforesaid.

Sometimes to assuage the sharpness of the Humor, you may give the Emulsions of the cold seeds made with the aforesaid Decoction.

In the mean while, divers Tonicks are to be used to appease Pain, take away Inflammation, and disperse the Humor. Or Oyl of sweet Almonds newly drawn, and which is better, the Oyl of Peach, Kernels of Gourd Seeds, Poppy or Henbane seeds.

Oyl of Box-tree is best, because it is stupifying: And as it cures all Tooth-ach miraculously, so doth it mitigate all other: and this if you lay but a drop with a little Lint upon the Hemorrhoids; or if you mix it with Lin-seed Oyl in this proportion, that there be half an ounce of that, and one scruple of Oyl of Box.

Quercetan highly commends the oyl of Nuts, in which Sows or Hog-lice have been boyled. You may also boyl Hog-lice in common oyl, and it will much assuage pain.

Plain oyl of Eggs, or made in a Leaden Mortar, doth the same.

Divers Liniments and Oyntments may be prescribed for the same: Some whereof do only appease pain, some disperse the Tumor, and dry: others heal the Ulcers. And you may apply them with Lint.

Take one Yelk of an Egg, as much Oyl of Roses or Violets as will make a Liniment: To which if you put Populeon, it will assuage pain better: and when the pain is very violent, you may add a little Opium.

Or,

Take of Hens grease half an ounce, the Pap. of an Apple roasted in the Embers one ounce, Saffron half a dram, Populeon half an ounce: With the Yelk of an Egg make a Liniment.

Or,

Take of Oyl of Violets two ounces, Populeon half an ounce; With one whole Egg make an Oyntment: Or let the white of an Egg be beaten with Breast-milk, and applied to the part with clouts dipped therein.

Or,

Take of the Mucilage of Fleabane seeds two ounces, Oyl of Violets three ounces. Make a Liniment.

Or,

Take of the Mucilage of Fleabane and Fenugreek seeds, extracted with Wine, of each two drams; Fresh Butter three ounces: Goats Suet one ounce. Mix them in a Leaden Mortar for a Liniment.

Or Butter alone set in a Leaden Mortar in the Sun till it wax black, is an excellent Medicine.

Also a fresh Pomatum is very Anodine.

Take of the Juice of Purslain and Honey, of each four ounces. Mix them in a Leaden Mortar into the form of a Liniment.

Take of Unguent of Roses two ounces, Quick-silver two drams: Mix them into a Liniment.

Or,

Take of white Diachylon moll fied with the Oyl of Camomel two ounces: Saffron one scruple: Opium three grains. Make an Unguent.

Horstius much commends an oyntment made of wild Flax, with its flowers boyled in Hogsgrease. To which being strained, and a little cooled, you must add the Yelk of an Egg, and apply it to the part with Lint. He saith, that it assuageth these kinds of pains miraculously, and that he had from John Wolf, that famous Physician of Hesse, who refused to discover it to his Prince the Landgrave of Hesse till he promised him every year a fatted Ox.

These Liniments following are good to disperse the Tumor, and assuage pain.

Take Leeks and roast them in a wet cloth in the Embers, and beat them with fresh Butter, and they will take away pain and swelling.

A red Onion doth the same boyled with the Pap. of a Lilly, and beaten with oyl of Myrtles.

Take the Oyl of Peach Kernels, and bitter Almonds, of each two ounces; Liquid Storax and Bdelium, of each two drams. Dissolve them in Oleo, and mix them for a Liniment.

The Balsom of Sulphur made of the flour of Brimstone and Spirit of Turpentine, is good to assuage pain and swelling, and to cleanse the Ulcers of those parts. And better, if instead of oyl of Turpentine you use oyl of St. Johns wort, and of Eggs. Also when there is great swelling with Inflammation, you may use oyl of Roses, or of Violets, instead of the oyls aforesaid.

Also Cataplasms are good for the same purpose. Of which the most common for taking away all pains, is that of white Bread and Milk boyled, adding Oyl of Roses, and Yelks of Eggs.

Aquapendens commends a Cataplasm of Plantane, Pellitory of the Wall, and Mallows boyled in Water, and after with Oyl of Roses; to which, when he would have it more drying, he adds Barley Meal, and Millet Meal: And if the pain be great, he makes it of Milk. He commends also the Cataplasm of Leek heads boyled in Common Oyl or Oyl of Myrtles, or made of Pilewort boyled in Water.

Green Elder Leaves boyled to slime in water, and then spread upon a cloth as big as the Palm of your hand, and applied hot to the Patient lying upon his Belly; if it be often renewed for many hours, and the part first anointed with common Oyl, or the Decoction of the same, is very excellent.

The Leaves also of Elder stamped and applied cold, do take away pain the third dressing.

Also Purslain stamped and applied, asswageth pain and swelling, heats the Ulcers, and consumeth proud flesh.

A white Onion roasted in the Embers, and made with fresh Butter into a Cataplasm, doth asswage pain; and discufs the Tumor.

Let Fomentations be applied to the part to take away pain, made of the Decoction of Mullein, Mallows, Holyhocks, Pellitory, Linseed, Fœnugreek seed, Marsh-mallows, Camomel flowers, and Dill boyled in Milk, or in the want of Milk, in Water and Oyl of Tripe Broth.

You may make a Bath with a greater quantity of the same Ingredients.

Cold Water alone, is a good Fomentation, and a Bath also. But in Winter warm it.

Also foment in Rose Water in which Salt of Lead hath been dissolved, especially if the part be inflamed.

To take away swelling, it is good to foment with red Wine wherein Allum is boyled.

Polypody of the Oak and St. Johns Wort boyled in equal parts of Wine and Water, doth sensibly abate the swelling of the *Hemorrhoids*, if the Decoction be squeezed in by degrees with a sponge, the Water of hot Baths applied with Spunges, or to sit in, are also good.

Aquapendens applieth a Sponge dipped in Thyme water and squeezed, and after bound upon the part; a Fumigation of the aforesaid Decoction while it is hot, or Mullein boyled in Milk with Rye flour, doth also appease pain. Or,

Take of Houseleek two handfuls: boyl them in white Wine, and let the Patient receive the fume through an hollow Chair.

To consume and dry up the Piles, a Fumigation made of the Powder of Darnel, Mullein, Pilewort, cast upon hot Coals, is good, and better if you mix brimstone therewith. Also it is made of Brimstone only, which taken with a Funnel, drieth up the blind *Hemorrhoids*. Also a Fumigation made of a Fire-stone quenched in Vinegar.

And this following Injection is marvelous good for the same, if often used.

Take of juyce of Plantane, and Oyl of Violets, of each four ounces: Natural Balsom half an ounce. Make an Injection into the Anus.

Amatus Lusitanus in the 91 Cure, Cent. 2. doth praise this following Suppository, in these words: *A Roman Lady which lived at St. Angelo's Bridge, having her Womb forth, complained also of the pain of the Hemorrhoids: And after we had used many choice Medicines, by which she received no benefit; we gave her a Suppository of Goats Suet and Opium, by which she was cured perfectly. But we washed the part afterwards with strengthening things warm, as ought to be after stupifying Medicines have been applied.*

The same *Amatus*, Curat. 6. Cent. 3. commends these following Topicks in these words: *A Reverend man was grievously troubled with the Hemorrhoids; and after divers means used by Physicians, was cured by us with this Medicine immediately.*

Take an Orange, and make it hollow, and fill it with Oyl of Roses, and of Spike; then roast it and apply it hot, repeated often, it is wonderful.

The Lungs of a Goat are used commonly, applied hot to the part, or some slices made hot between two dishes with a little water to asswage pain.

Both the aforesaid Balsom of Sulphur, and these following Ointments, are good for the Piles ulcerated.

Take of new Oyl of Eggs two ounces: Stir them in a Leaden Mortar, and apply them.

Take four ounces of Oyl of Roses, and one ounce of Cerufs: With half an ounce of Litharge, and six drams of new wax, and four grains of Opium, make an Oyntment. Or,

Take of Frankincense, Myrrh and Saffron, of each one dram: Opium two grains, One Yelk of an Egg, Oyl of Roses, and Mucilage of Fleabane seeds, of each as much as will make an Oyntment.

If they will not easily be dissolved, you must open them after convenient Revulsions, rubbing them with a rough cloth dipped in the Juyce of Onions, in which there was dissolved one dram of Aloes: This is *Hartman's Secret*. But they are sooner opened, and with less pain, with a Pen-knife, or Horse-leeches.

Some special things are taken by the Mouth to asswage pain, and consume the *Hemorrhoids*. The chief are these:

The Decoction of Yarrow taken three days as ordinary drink, and the seed of three Leaved Grass given many days together with the Yelk of an Egg, is also excellent.

The Powder of Mullein given in Milk, or otherwise, is much approved against the swelling of the Piles.

The Powder of Yarrow and Tormentil are commended to do the same.

The Juyce of Mullein by its self, or mixed with Sugar of Roses or Penides; or made into a Syrup with Sugar, is also excellent.

Finally, Pills of Bdellium taken often, do consume the Piles, and take away the cause of them insensibly.

An Issue made in the Leg, is very good for them who are subject to this Disease.

The End of the Tenth Book.

S f 2

THE



THE
ELEVENTH BOOK
OF THE
PRACTICE
OF
PHYSICK.

Of the Diseases of the Liver.

The Preface.

THe Liver (as other parts) is subject to all kinds of Diseases: For as it is compounded of similiary parts it hath divers distempers; and as it is an Organical part, it is affected with Tumors and stoppages, as also with solution of Continuity, which is Wounds and Ulcers. And although the Dropsie be in the whole Abdomen or Belly, as in the Ascites or Tympanites; or in the whole Body, as in an Anasarca: yet the Original thereof for the most part is from the Liver. We intend here only to shew the chief Diseases which are most ordinary, and we shall comprehend them in six Chapters: The first whereof is concerning the Hot Distemper of the Liver: The second of the Inflammation, Ulcer, and Imposthume of the Liver: The third of Obstruction of the Liver: The fourth of the Jaundice: The fifth of Schirrus; The sixth of the Dropsie.

CHAP. I.

Of the Hot Distemper of the Liver.

MAny Men have a Hot Distemper of their Liver from their Birth; of which here we shall not treat, but only of that Preternatural Disease which manifestly hindereth the actions of the Liver.

DIFFERENCES. This Distemper is either Simple or Compound; either with Matter, or without; but for the most part it hath Matter joyned with it, because a Hot Distemper of the Liver useth to produce Hot and Cholerick Humors.

CAUSES. The Causes of this Distemper are hot Weather, immoderate Exercise, much Anger, and other great Passions of the Mind, and especially hot nourishment and Physick, or things spiced, a pure and strong Wine drunken plentifully: To these you may add the heat of the Part adjacent, as in strong Feavers the Liver waxeth hot from the heat of the Heart.

SIGNS.

SIGNS. The Signs of a hot Distemper of the Liver, are loathing of Meat, especially flesh; thirst, binding of the Belly, vehement heat in the whole Body, especially in the palms of the hands and soles of the feet; leanness of the whole body, the Patient is worse for hot things, and better for cold; and if there be plenty of hot Humors, there will sometimes be vomiting and purging of Choler; there is a bitterness in the mouth, and for the most part a Fever.

PROGNOSTICK. As to the Prognostick. A hot distemper of the Liver is not very dangerous, because it is not much contrary to the Constitution of the Liver, but it useth to be the Cause of many Diseases, not only of the Liver, but also of other parts. It is hard of Cure, especially when the Stomach is cold, as often it is; for those things which are given to cool the Liver hurt the Stomach, and enlarge its Distemper.

CURE. The Cure consists altogether in the correction of the Distemper by cooling Medicines, and by the Evacuation of the Cholerick humors which come from the Liver, increasing the Distemper, and that Distemper it, and is the Cause of other Diseases.

And first opening of a Vein doth much cool the Liver, takes away some of the Choler, and opens the Obstructions which comes from Choler; therefore you must open the Liver Vein of the right Arm, and let such a quantity of blood as is agreeable to the fulness and strength of the Patient, either at once, or divers times, according to the greatness of the Disease, and the continuance of it, and that after a Clyster or Laxative Medicine hath been administred.

Then you must give a Medicine which doth gently purge Choler, and repeat it often at distance; or an Apozeme for divers Doses, or the Magistral Syrup, or Syrup of Succory, Compound with a four-fold proportion of Rhubarb which is most convenient, because it doth innocently purge the Cholerick Humors, cooleth the Liver, strengtheneth it, and opens Obstructions.

The Forms of these Medicines are these that follow:

Take of cleansed Senna and Tamarinds, of each half an ounce: Annis seeds one dram, Succory and Sorrel, of each one handful; scraped Liquoris three drams; the three Cordial Flowers, of each half a pugil: boyl them to three ounces, and dissolve in the straining, of Rhubarb infused with a little Lavender Spike in Succory Water, one dram and an half; double Catholicon three drams; Syrap of Roses one ounce: make a Pation, give it in the morning with due custody.

For the finer sort of people you may make Clarified Potions which are lately invented; which are in form of a Julep, but somewhat unpleasant to the taste, and in them there is prescribed a double quantity of Purging Medicines, because the much strength of them is lost in the Clarifying, so that they do seldom work upon strong bodies, especially in a dry Country where the humors are less flowing, and not so obedient to purges; but in most Countries, these kind of Medicines work successfully.

This following is an Example of Clarified Potions.

Take of clean Senna one ounce, Annis seeds one dram, Succory Leaves and Maiden hair, of each one handful, scraped Liquoris half an ounce; boyl them to ten ounces, and infuse in the straining two drams of Rhubarb, Cassia new drawn, and double Catholicon, of each one ounce, bruised Tamarinds half an ounce, Coriander seeds prepared one dram, Syrap of Roses one ounce; strain them, and clarify them according to art: make a Potion.

An Apozeme to purge Choler is thus made:

Take Sorrel, Dogs-tooth, Succory and Dock Roots, of each one ounce: Endive, Succory, Dandelion and Maiden-hair, of each one handful, of the four great cold seeds, of each three drams, scraped Liquoris one ounce, Succory Bugloss and Violet flowers, of each one pugil; clean Senna two drams, Tamarinds one ounce, Mace and Cloves, of each one dram; boyl them to a pint and a quarter: in the straining dissolve half an ounce of Rhubarb infused in the aforesaid Decoction with a little Cinnamon, of Compound Syrap of Succory, and Roses solutive, of each two ounces: make an Apozeme, clarify it, and aromatize it with two drams of yellow Sanders, for four mornings draughts.

A Magistral Syrup may be made of the Ingredients of the former Apozeme, with a treble quantity of Purges, and adding an equal portion of Sugar to the Decoction.

A Syrap of Juyces is most used amongst us, and it is of great power in Chronical Diseases, which come from a hot distemper of the Liver, and from yellow and burnt Choler. And it is made thus:

Take of the new made Juyces from their Faces, and of Endive, Succory, Sorrel, Fumitory, Burage and Bugloss, of each three pints: the Juyce of sweet Apples newly drawn and purified two pints, fresh Polypody of the Oak half a pound, clean Senna eight ounces, Dodder of Thyme three ounces: Agarick newly trochiscated half an ounce, Mace and Cloves, of each half a dram: infuse them, and boyl them according to art while there remains one pint and an half of the straining, in which dissolve of Rhubarb infused with a little Lavender in the aforesaid Juyces, and strained one ounce: white Sugar one pound and an half: make a Syrap well boyled, clarified and aromatized

aromatized with two drams of Triasantalon; keep this Syrup in a Glass, give two ounces at a time, or three, twice or thrice every Month with Chicken-Broth wherein Endive, Succory and Sorrel have been boyled, or Whey.

These things following are excellent to cool the Liver. And first for ordinary Drink, use the common Ptilan made of Barley water and Liquoris, or with Dogs-tooth and Sorrel Roots. Or mix such a Decoction with Syrup of Lemons or Maiden-hair. Or they who are more dainty may take only the simple Spring Water, mixed with the aforesaid Syrups. And if you desire to cool more, you may put as much Spirit of Sulphur or of Vitriol as will make it a little sharp. And when the heat is very vehement, you may give a dram of Lapis Prunellæ therewith. There is also made a most pleasant Drink of Conserve of Roses mixed with Spring water and strained, to which you may add some drops of Spirit of Sulphur or Vitriol to make it sharp and red like Wine.

You may also make a Tincture of Roses thus:

Take of red Roses dried one ounce, warm water three pints, Spirit of Sulphur or Vitriol one dram and an half: Infuse them three or four hours, add to it being strained three quarters of a pound of white Sugar. Keep it for your use.

The Alexandrian Julep for this purpose, is made thus:

Take of Spring Water one pint, Rose Water, Juyce of Lemons, and white Sugar, of each four ounces: Boyl them with a gentle fire till they are skimmed.

These two last Remedies are used two ways, either for ordinary Drink, or as a Julep twice or thrice in a day.

Also divers Juleps to cool the Liver use to be prescribed; of which, the Forms following may be Examples.

Take of Sorrel, Succory, Dogs-tooth and Dock-roots, of each one ounce: Endive, Succory, Sorrel and Maiden hair, of each one handful: Succory, Bugloss and Borrage Flowers, of each one pugil; boyl them to a pint. In the straining, dissolve Syrup of Lemmons three ounces: Make a clear Julep for three Doses, to be taken twice in a day. If you will make it cooler, add a little Spirit of Sulphur or Vitriol to every Dose to make it sharp. And to make it colder yet, add a dram of Sal Prunella.

When Herbs are wanting, you may make a Julep of Stilled Waters thus:

Take of Endive, Succory and Sorrel Water, of each three ounces: Syrup of Lemmons and Pomegranates, of each one ounce and an half: Make a Julep for three Doses.

You may also make Juleps that are good and pleasant of Juyces: an Example of all which, may be this that followeth:

Take of the Juyce of sweet Apples newly drawn, and taken from the Feces, four ounces; the Juyce of Lemmons three ounces, Rose Water two ounces, the Juyce of Pomegranates one ounce, white Sugar half a pound. Make a Julep for three Doses.

Instead of Juleps, Physick Broth may be made for dainty Folk, of the Herbs aforesaid boyled with a Chicken. To which you may add one dram of Lapis Prunellæ, that it may cool the better; or make it sharp with some drops of Spirit of Vitriol.

Blood of Succory and Germander, brought into a Syrup as followeth, are good to cleanse the Blood, open Obstructions, and cool the Liver.

Take of Succory Water made in Balneo Maria as much as you please, the Leaves of Succory two parts: Germander one part: Steep them together, and digest them in Balneo Maria three days; then strain them, and add to the liquor fresh Succory and Germander, then digest them again three days; then strain them, and let this way of Infusion be repeated eight or ten times. The Liquor will turn red like blood, to which you must put as much Sugar, and make it into a Syrup.

Besides, you may make Opiates and Tablets to cool the Liver, and strengthen it thus:

Take of Conserve of the Flowers of Succory, Violets, Water-Lillies and Bugloss, of each one ounce; the Powder of the three Sanders one dram and an half. With Syrup of Lemmons make an Opiate to be taken often.

Take of the Lozenges of the three Saunders, with a double quantity of Rhubarb four ounces. Let him take every morning two hours before meat, one of the weight of two drams.

Conserve of Hips of the Canker Rose well cleansed, and boiled with Sugar into the Form of a Marmalade, doth powerfully cool the Liver, if the Patient taketh it instead of the former Opiate.

The Tincture of Coral, made with Juyce of Lemmons doth cool and strengthen the Liver, if you give two spoonfuls thereof every day, or twice in a week at the least.

A Bath of warm Water used often, doth more powerfully and profitably cool and moisten the Body than any other Remedy, especially in lean Folk.

Whey is good for the same, if it be used fifteen days or more together. It is made best by boiling

ling the Milk, and pouring in a little Vinegar of Juyce of Lemons, and afterwards straining it.

Amatus Lusitanus prepareth it thus:

Take of Whey one pint, very sharp Syrup of Vinegar three ounces: Mix them, and after a little boiling, let it be taken as Mineral water twice or thrice, and then walk upon it. The Ancients took five pints at a time.

Quercetan prepareth it thus:

Take of Whey two pints, Juyce of Lemons two ounces, the new made Juyce of sweet Apples three ounces. Clarifie them all together at the Fire with the white of an Egg, and put to them a little Sugar. When it is strained, take six or eight ounces every morning, for fifteen or twenty days together.

And if the Body be lean and consumed, you may give Milk alone, especially if it be of an Ass, for many days.

The Decoction of *China* prepared with the Juyce of Lemons, is also good for this purpose, especially if there be Obstructions. It is made thus:

Take of *China* Roots sliced one ounce, Spring water six pints, the Juyce of Lemons three ounces: Steep them twenty four hours, then boyl them till the third part be consumed, then strain them through a Hippocras Bag, and let him take six ounces thereof morning and evening, and mix it with Wine when he pleaseth.

Lastly, Mineral waters that have Vitriol, are good, because they open and cool.

If the Disease continue after all this, open the Hemorrhoids with Horse-leeches once or twice in a Moneth.

And also use outwardly Epithems and cooling Oyntments to the Region of the Liver.

Make Epithems of Sorrel, Succory, Rose or Plantane water, or of Vinegar and Camphire; to which for the strengthening of the part, add a little powder of the three Sanders.

The Oyntments are, *Galens* cooling Oyntment and the Cerat of Sanders.

CHAP. II.

Of the Inflammation, Imposthume and Ulcer of the Liver.

THE Inflammation of the Liver, is a hot Tumor arising from blood, which is out of its Vessels, and sent into the substance thereof.

DIFFERENCES. And as the blood is either pure, or mixed with other Humors, so doth it produce divers kinds of Tumors. For if it be pure, it makes a true Phlegmon; but if it be mixed with Choler, Flegm or Melancholy, it produceth an Erysipelous, Oedomatous or Schirrous Phlegmon. And if the said humors predominate over the blood, there is a Phlegmonious Erysipelas, Oedema and Schirrus.

There is another difference in respect of the place in which the Inflammation is; it is either in the gibbous part, or Cavity of the Liver. Which is thus to be understood according to *Galen*, 5. *de locis, aff. cap. 7*. An Inflammation cannot be in either part of the Liver distinct, so that the other shall be free, because the flesh of the Liver is united in all its parts, and therefore when one part suffereth, the other also suffereth in some measure.

Moreover, That which *Galen* taught, 13. *Meth. Cap. 14*. is worth observation: When the hollow part of the Liver is offended, it is necessary that the Inflammation reach to the Veins of the Mesentery, which come from the Gate-Vein. And experience teacheth, that they who have died of this Inflammation have had, not only an Imposthume of the Liver, but also in the Mesentery.

We must also observe from *Hippocrates*, *Aph. 45. Sect. 7*. That an Imposthume sometimes is only in the Membrane which covereth the Liver, and sometimes in the substance or *Parenchyma* of it: For (saith he) they who have a hot Liver suppurated, if pure white Quittor or Matter flow from thence, do escape: for it is contained in the Tunicle, but if it be like Lees of Oyl they die. *Galen* in his Comment saith thus; They who have Matter in the Tunicle of their Liver, and the substance not suffering, do all escape: but they who are corrupted in the very fleshy substance of the Liver die: and there is good reason to be given why they do.

CAUSES. The immediate Causes of this Disease are too much Blood, or the boiling heat, thinness and sharpness of the same; or the motion and stirring of it in the Veins; from whence by the aforesaid Causes, it is easily thrown into those parts which are most fit to receive it. The Liver is most fit to receive blood abounding when it is too hot, or hath any pain, for heat and pain do attract, or if it have any natural or adventitious weakness; For all parts that are burdened with any Humor, do disburden themselves upon the weakest. Among these Causes you may reckon the obstruction of the Liver, by which the thick Humors are retained, and are inflamed by a Preternatural heat.

The External Causes may be many, as too much heat of the body from the immoderate exercise, the Sun or Fire : but Meats sharp and spiced, immoderate taking of too much strong Wine, too much Lechery, Fear, a stroak or fall upon the Liver side, also hot Medicines applied without reason thereto ; as *Fabricius Hildanus* reports of one, who having a cold distemper of the Stomach, had Emplasters and hot Oyntments of Pepper, Cardamons, oyl of Cloves, and the like, applied to him, by which means the Inflammation of the Liver was encreased ; for the Liver covereth the stomach, and the Medicines which are applied to the stomach, do first touch the Liver with their Virtue.

Cuppling Glasses applied to the Region of the Liver will do the same, of which *Fabricius Hildanus* brings an Example concerning one who bled at the Nose, to whom he applied great Cuppling Glasses upon the Region of the Liver which stayed the blood ; but a great Inflammation of the Liver followed.

SIGNS. The Signs of this disease are many, according to *Galen* and other Authors which we shall lay down severally, because many errors are committed in the discovery thereof.

The First Sign is, Heaviness in the right Hypochondrion which comes from the repletion and distension of the Liver ; because being of its own nature large and very compact, if it be filled with much Humor, it will grow very heavy : which the Patient apprehends when he turneth from one side to the other.

The Second Sign is Pain, which sometimes is perceived in one place, sometimes in two or three, in the Region of the Liver there is a weighty pain ; sometimes it is very extending in the lower Ribs when the Inflammation reaches to the Ligaments of the Liver which are fastened to the Ribs : sometimes the pain is communicated to the Throat by the continuation of the Membranes, which have consent with the Membrane which covers the Liver.

The Third Sign is a Fever, which is commonly at night, and is more or less sharp according to the Humor offending : for in a Cholerick Inflammation it is most burning ; but in a Flegmatick, gentle ; and in a Sanguine Inflammation, moderate between both.

The Fourth Sign is difficulty of Breathing, because the Liver is tyed to the Diaphragma or Midriff ; and therefore by its weight forceth it downwards, as also presseth it with greatness and swelling ; so that both ways the free motion of the Diaphragma is hindered.

The aforesaid Signs are Universal or proper to declare the Disease : there are many other equivocal signs, which also do much avail to the knowledge of the Disease ; As a dry Cough, a hard Pulse, unequal, and like a Saw ; the colour of the Tongue first red, and then black ; a great loathing of Meat, unquenchable thirst ; vomiting of Choler, and sometimes of Flegm ; a pale colour of the whole Body tending to the Jaundice, yellowish, red and flaming Urine, which is sharp : when the Patient lieth with his face upwards, he is more at ease than when he lieth on either side ; because when he lieth upon the right side, the Liver is pressed upon by the stomach ; when he lieth upon the left, it is extended by its own weight hanging down ; the Belly is bound, by reason of the Heat which consumeth all the moisture of the Chylous matter. Sometimes it is loose, namely, when a weakness of the Liver is joyned with inflammation ; for then the Excrements are sent forth moist, like the water wherein Flesh hath been washed.

The Signs of the differences are these ; if the Gibbous or Convex part of the Liver be affected, there is a Tumor to be felt in the right Hypochondrion, and it makes the figure of the Liver like a half Moon ; there is great pain in the Breathing, and reacheth to the right side of the Throat, so that it seemeth to be pulled down. There is a great Cough and difficulty of Breathing, and greater weight.

But if the Hollow part of the Liver be affected, the Tumor is not so easily felt ; but because as I have said, one part of the Liver cannot be inflamed, but the other must also suffer ; when the part is touched and pressed down, some pain is perceived.

Moreover, Because this part lieth upon the stomach, there is a greater loathing of Meat, vomiting, thirst, and looseness of the belly, from the food corrupted in the stomach, which is distempered by the nearness of the Liver to it.

The Signs of the Causes are these,

If the Inflammations come from pure blood, there is either a perfect red, or dusky colour in the face ; the Pulse is great, soft and waterish ; the Urine is red and thick, the Body is full of flesh : there is sweetness in the mouth, the party is young, and hath fed high.

If the Choler predominate, the Face is yellow, the Pulse is swift, hard and unequal, the Urine thin and very yellow, sometimes flaming ; the body is lean and thin, the eyes hollow, the mouth bitter ; there is vomiting of Choler, and Causes that breed Choler went afore.

But because the Inflammation of the Muscles of the *Abdomen* or Belly, is very like the Inflammation of the Liver, therefore we must distinguish them by their proper Signs.

In the Inflammation of the Muscles of the *Abdomen* the skin is so extended that if you lay hold of it, you cannot move it; the Tumors of the streight Muscles are long & over the whole belly comprehending the Navil: and the Inflammation of other Muscles is in the form of them. On the contrary, the Inflammation of the Liver is in the sharp of the part affected; and if you lay hold on the Muscles they yield, and the Tumor is somewhat deeper.

Moreover, the colour of the whole body is of much concernment for the distinguishing of the Diseases; for in the Inflammation of the Muscles it is fresh, and almost in its natural condition; but in the Inflammation of the Liver, it is pale, yellow, and like the Jaundice.

There is a famous Example of this in *Galen*, 5. *de loc. aff. cap. 7.* of one *Stesianus*, who when he was judged by other Physicians to have an Imposthume in the Liver, *Galen* being sent for, at the first view of his face, presently said that there was none, and searching his belly, he found it in the *Abdomen*: He judged upon this ground, Because the Patient had not his face so discolored, as useth to be in the Inflammation and Imposthume of the Liver.

The like Example is in *Valeriola*, *Lib. 4. Obs. Cap. 5.* of a certain Woman which was brought by another Physician to have a Phlegmonous Tumor in the Liver, But saith he, *When she sent for me, I judged it not to be so, but in the Muscles.* And a little after he saith, *When I first came, I touched the place, and I found a long swelling in the right Hypochondria down to the very Navil; the Face was red, fresh, and of a Rosie colour, mixed with white, continuing all the time of the disease in the same state; the Urine was very good both in colour, and respect of things contained: from all which it appeared, that not the Liver, but the Muscles over it were affected; for when the Liver is affected, there is always a discolouring of the face.* For *Galen* saith, that he knew many diseased in their Livers by their colours, *Lib. 5. de loc. aff. cap. 9.* for the colour in such is commonly yellowish, white and inclining sometimes to green.

Moreover, It is troublesome to distinguish a Pleurisie from an Inflammation of the Liver: as you may observe in *Galen*, 5. *de loc. aff. cap. 7.* in his History of *Siculus* the Physician, who was deceived in himself, supposing that he had a Pleurisie: because he had a Fever, little and frequent breathing, a small Cough, and a pain near the lower Ribs: but *Galen* by his stools, which were like water wherein flesh had been washed, knew that his Liver was inflamed, for such a flux doth shew that the Liver is greatly disordered. But this sign cannot always distinguish a Pleurisie from an Inflammation of the Liver. For as *Galen* teacheth in the place cited, such kind of moist and bloody stools come only when the Liver is inflamed, when it is also very weak; otherwise one sign of the Liver inflamed is (by *Galen*) costiveness. Therefore when the Liver is not weak, you must look for other signs, by which you may distinguish them.

If then the Inflammation be in the *Pleura* towards the right Hypochondria, the pain will be vehement and pricking, the breath more difficult, there will be no change of colour, the Cough will be greater and not dry, but commonly (especially in the increase of the Disease) with bloody spittle, somewhat at least discolored; and lastly, the Pulse will be hard, and like a Saw: But in the Inflammation of the Liver, the pain is less, joyned with heaviness, the colour is yellowish, there is a dry Cough now and then, the Pulse is not so hard; and lastly, there is a Tumor in the right Hypochondrion.

And if the Inflammation be in the Mesentery, the Tumor will appear beneath the Region of the Liver, there will be no change of colour in the Face, the stools will be moist, in which at first there will be thin and unconcocted Matter, afterwards concocted, in those of whom there is hope of recovery.

PROGNOSTICK. The Prognostick of this Disease is thus made:

Every Inflammation of the Liver is very dangerous, and for the most part deadly. And if it doth not kill presently, it ends in a Dropsie, or Atrophy, or Consumption. All the hope of recovery is from the strength, as *Galen* 10. *Meth. Cap. 5.*

An Inflammation of the Gibbous or buncy part of the Liver, is more dangerous than that which is in the hollow part, by reason it is nearer the heart, the Midriff, and hollow Vein.

An Inflammation coming from Choler, is more dangerous than that which cometh of pure blood, because then the Fever is stronger, and other Symptoms greater.

The Hiccoughs in an Inflammation of the Liver are evil, *Hip. Aph. 17. Sect. 7.* For it shews the increase of the Inflammation, and malignity, which doth by consent disturb the Stomach.

A Looseness joyned with an Inflammation of the Liver is deadly, except the Matter voided be concocted, and the flux be Critical.

If the Inflammation of the Liver cannot be dissolved, as it seldom can, and if the Faculty be strong, it turns into an Imposthume; otherwise it turns into a Gangrene or Sphacelus. The Suppuration for the most part will be within twenty days. And this Imposthume is very dangerous, and few escape thereof: But if it be little, and only in one part of the Liver, and the matter white and even which comes forth by Urine or Stool, they escape. Also a Tumor in the Convex, or outward part of the Liver, which appears in the Skin as it were moveable, may be opened with an actual Cautery;

and if the Matter coming forth be pure and white, they escape, for the Matter is contained in the Tunicle; but if it be like Lees of Oyl, they die.

After the Imposthume is broken, if the Patient live, there remains an Ulcer, which is very troublesome to cure; and if it be not superficial, it causeth a Dropie or *Marasmus*.

Also an Ulcer may be in the Liver from sharp humors that corrode it, especially if they be chole-
rick, and spread through the substance of the Liver, which putrifying by degrees, get a malignant and
venomous quality.

DIAGNOSTICK. The knowledge of this Ulcer, which comes from the sharpness of the humors without Inflammation foregoing is difficult. But it may be known by some signs, And first, there is an ulcerous pain in the right Hypochondrion, and the Patient waxeth lean; and if it be in the hollow part of the Liver, there are stools with Pus or Matter, and sometimes with blood, and pain of the Guts by reason of sharpness of the humors, like a *Dysentery*, which is distinguished from this disease in this, Because there is a weight and pricking about the Liver. And sometimes Authors have observed that pieces of the Liver have been voided by stool. But if the Ulcer be in the gibbous or outward part, the water is mattery without any distemper of the Reins or Bladder. There is a small Feaver in the increase of the disease, which turneth into an Heetick. The colour is yellow, and sometimes there are small pustules which come from the adustion of humors in the Face. There is a loathing of Meat, and especially of flesh, a stinking breath, and often fainting.

PROGNOSTICK. Concerning the Prognostick: It bringeth a lingering Heetick Feaver.

And if the Ulcer be not small, superficial, and cured betimes, it is deadly.

Those Exulcerations of the Liver which follow Inflammations and Imposthumes, are more dangerous than those that rise without them.

CURE. The Cure of the Inflammation of the Liver, is the same with that of the Inflammation of the stomach aforementioned, and chiefly in respect of Phlebotomy. Purges and altering Remedies are to be given in the beginning of the disease.

You must also give often Clysters, such as were prescribed in the Inflammation of the Stomach.

But afterwards, cooling, cleansing, and opening Juleps, such as we described in the Chapter aforementioned, bewaring that they be not too sweet, for by sweet things the Liver being inflamed, grows larger, as *Tralian* teacheth, *Lib. 4. cap. 10.*

Let his drink be Decoction of Barley, Dog-tooth, with a little Liquoris, Syrup of Violets or Maiden hair.

In the Decoction you may add to the former Juleps, the Roots of Smallage and Parsly the Leaves of Agrimony, Maiden hair, &c.

And afterwards Turpentine, washed Agrimony, or Parsly water given twice or thrice, takes away the reliques of the disease.

But if the disease be stubborn, and last long, you must prescribe an Apozeme of opening and loosening things, thus:

Take of the Roots of Smallage and Parsly, of each two ounces: new Polypody of the Oak three ounces: the Leaves of Agrimony, Burnet, Ceterach, Maidenhair of each one handful: Anis, Fennel and Parsly seeds, of each one dram: Chamomel and Violet flowers, of each one pugil: clean Senna one ounce: Boyl them to a pint and a quarter. Dissolve in the straining Rhubarb infused with a little Lavender in Succory water two drams: simple syrup of Vinegar four ounces. Make an Apozeme for four Doses, to be taken every other day.

Outwardly, many Topicks are good to be used the whole time of the disease. And in the beginning, Epithems, Liniments, and cooling Plaisters, such as stop fluxes, made thus:

Take of Endive, Succory, Sorrel, Plantane and Rose water, of each three ounces: Vinegar of Roses one ounce: the powder of the Electuary of the three Sanders one dram and an half: Camphire half a scruple. Make an Epithem to be applied warm to the Region of the Liver. Or,

Take of the Leaves of both Endive, Succory, Plantane, Bugloss, Burrage and Water-lilly-flowers, of each one handful: Roman Wormwood half a handful: Red Roses two pugils: red and yellow Sanders of each two drams: boyl them to one pint and an half. Dissolve in the straining half a pint of Rose Water, Rose Vinegar one ounce: Camphire one scruple. Make an Epithem.

If you desire to cool more, you may add the Juices of the aforesaid Herbs.

Take of Oyl of Roses two ounces: Oyl of Wormwood half an Ounce: mix them and wash them with Oxycrate, and anoint the place therewith after the use of the Epithem. Or,

Take of Oyl of Roses, and of Mirtles, of each two ounces: the Juice of Endive and Succory, of each one ounce: Vinegar half an ounce: boyl them to the consumption of the Juices: then add the Powder of red Sanders and Roses, of each one dram: as much Wax as will make an Unguent.

Or,

Or you may use the ointment of Roses alone, or *Galen's* cooling ointment washed with Oxycrate.

In the progress of the Disease, when the Feaver and pain decrease, you must mix Dissolvers with Coolers, either in equal or unequal proportion, as the Disease grows nearer to the state or declination, these must be wisely composed. But that you may know what to make of them; we will shew you some Examples.

Take of Oyl of Roses two ounces; Oyl of Wormwood one ounce; Oyl of Chamomel half an ounce; Powder of the three Sanders one dram; Spicknard half a dram; Wax as much as will make a Liniment.

Take of clean Dates ten; whole Raisins three ounces; boyl them in Oxycrate; then beat them with Chamomel, Melilot, and red Rose Flowers, of each one pugil; Spicknard and Schœnanth, of each one dram; Smallage and Parsley seeds, of each half a dram; Endive and Purslain, of each one dram and an half; Oyl of Wormwood and Roses, of each one ounce; Barley meal two ounces. Make a Cataplasma.

Or you may make one not so hot, thus:

Take of Barley Meal three ounces, red Sanders two ounces, Oyl of Roses three ounces. Mix them with the Decoction of Endive and Succory, for a Cataplasma.

In the Declination, when the Feaver is gone, you must use Dissolvers with Emollients, lest any hardness should remain, and some Astringents to strengthen the part:

Take of Marsh-mallow Roots three ounces, Cypress Roots, and Calamus Aromaticus, of each half an ounce; Millows, Violets, and Agrimony, of each one handful; both the Wormwoods, of each half a handful; Fœnugreek, Annis, Fennel, and Linseed, of each half an ounce; Chamomel, Melilot, and Dill-flowers, of each one pugil; Spicknard, Schœnanth, and Mastich, of each one dram and an half. Make a Decoction of them, and foment the part affected with it, somewhat hot.

Take of Oyl of Chamomel, Lillies, and sweet Almonds, of each one ounce; Oyl of Wormwood and Spike, of each half an ounce; the Powder of Schœnanth, Rosata Novella, Wormwood, of each one dram; Wax so much as will make a Liniment to be used in the declination of the Disease.

If the hardness of the part continue, it will be good to add the former Liniment, Gum-Ammoniacum dissolved in Vinegar. Or this Plaster:

Take the Emplaister of Melilot, and Diachylon with Flower-de-luce, of each one ounce. Mix them, and spread them upon Leather, cut like a half Moon to be laid to the part. Or,

Take of Gum-Ammoniacum dissolved in Vinegar one ounce: Labdanum and Mastich, of each two drams; Oyl of Wormwood and Wax, of each as much as will make a Plaster.

If the Inflammation tend to suppuration, which is known by the increase of the Feaver, and the pain, according to *Hip. Aph. 7. lib. 2.* there is great danger, and few escape in this case. Yet you must further the Suppuration with the aforesaid Emplaisters, which will dissolve the Matter which will be dissolved, and suppurate that which will be suppurated or ripened; as also with mollifying Cataplasms, and you must give inwardly Chicken Broth wherein Mallows, Marsh-mallows, Figs, and Prunes have been boiled.

After the Imposthume is broken, if white Matter flow by Stool or Urin, you must cleanse with Barley water, or Whey with Honey of Roses, or with those Remedies which are prescribed for the cure of the Ulcer of the Stomach. But if the Suppuration tend outwardly, you must open it with a red hot Incision Knife, according to *Hippocrates*. And if the Matter come forth white and concocted, there is hope of Cure; but if red, filthy and stinking, the Patient is near death.

CHAP. III.

Of the Stoppage, or Obstruction of the Liver.

THe obstruction of the Liver is a Preternatural closing or straightness of the Branches of the Vena Porta, and Cava, that is, of the Gate and hollow Vein, and sometimes of the substance of the Liver; hindering the passage of Natural Humors, and the distribution of the Nourishment, coming from some Matter which filleth their Cavities.

Hence it is that obstruction is an Organical Disease, namely in the way and passage obstructed, which hinders the distribution of Blood for the nourishment of the parts. These ways or passages are not only the veins which are dispersed through the whole substance of the Liver, but also the Pores and insensible Passages, with which the whole substance of the Liver, and also of other parts, is very full; which being shut up by a preternatural humor, neither can the heat of the Liver be cooled, nor can the thin vaporous Excrements be evacuated.

The Matter that causeth the Obstructions commonly is a gross Excrement, vicious and clammy, which being not able to pass freely, sticks in the passage, and is more and more thickened by the heat of the part, so that the longer Obstructions continue, the worse they are.

Sometimes plenty of humors cause an Obstruction, as Galen sheweth, 10. meth. cap. 2. in these words: Of Obstructions some come of abundance of humors, and some from the quality, as when they are gross or clammy: Blood-letting is the best Remedy against those which come from plenty, and the use of attenuating things is best against those that come of Quality.

This Obstruction which comes from plenty of humors, happens chiefly in the Vessels and their Cavities when being too full, they are so distended that they cannot contract themselves for the sending forth of the Matter contained: As we may observe by the Bladder, when it is stretched out by long retention of too much Urin, that it cannot contract it self; from whence there comes a stoppage of Urin, or difficulty of voiding thereof.

Not only humors, but also sometimes many gross vapors, which cannot easily be discussed (because the way is not open as in the Cholick) may be the cause of Obstruction, as Galen teacheth, 3. de loc. aff. which causes are very rare, and absolutely denied of some.

The humor which stoppeth with its thickness is chiefly Flegm, which will easily grow gross and clammy. Melancholy is next, which by its coldness, thickness, and drossiness, may cause Obstructions: Also Blood may do the same by its quantity and thickness. And lastly, Choler staying long in the Liver grows thick, and breeds dangerous Obstructions. The Antecedent and Principal Causes, are all things that produce thick and clammy humors, and thick and cloudy Air, Meats of gross Juice, viscous, hard of Concoction, and distribution, astringent, cold, and not fit to be eaten; as Pears, Quinces, Services, Medlars, Mushrooms, Cheese, Pulse, Pease or Beans, Beef and Pork, slimy Fish, and dried in the smoak, Bread not well baked, Rapes, Chestnuts, thick, red, and astringent Wine, and muddy Ale.

Also an evil disposition of the Liver, especially a cold distemper, which may also produce Obstructions from good Juice, as when it doth not well concoct, but turns the meat into a Salt Tartarous and mucilaginous or slimy Matter.

Also the Distemper of the Stomach may be a cause of Obstructions, when it begets too crude a Chyle, which cannot after be well ordered by the Liver, because the fault of the first Concoction is not amended by the second.

SIGNS. The signs of this Disease are to be divided into divers sorts, some signify the kind of the Disease, others the part affected, and others the cause that produce it.

The signs that shew the kind of the Disease are common to all natural parts that are subject to Obstructions: for they shew only Obstruction lying in the lower Belly, and these therefore will serve for the knowledge of the Obstructions of the Spleen, and Mesentery especially.

The Signs shew that there are Obstructions in the said parts.

The Excrements of the Belly being out of their natural condition, especially when they are moist, white, chylous, or bloody; white Urine, thin and watery, and as it were strained, because the thicker parts cannot pass through by reason of the Obstructions, but only the pure water comes through unmix'd; and it may be yellow if there be heat.

Difficulty of breathing, especially when the Patient walketh fast, or goes up a hill or pair of stairs, because the parts obstructed do draw the Midriff downwards, and hinder its free motion; the Face is pale; there is leanness and dulness over the whole body; the Pulse is unequal; and lastly, there is such a sense of weight in the Hypochondria as they feel who have been feeding very hard; therefore Hippocrates, 4. de victus ratione in acut. calls that heaviness a fulness of the Hypochondria, attributing that Disease to the Hypochondria, which properly belongs to the Stomach; for as often as the Spleen and Liver are filled with evil humors and swell, they are pressed and feel a heaviness, after the least eating of the lightest Meats, as they who have over-gorged themselves. This sign doth so surely declare the Obstruction of the Hypochondria, although there be neither pain nor apparent swelling, that Prosper Mauritanus in his Comment upon the aforesaid Book of Hippocrates affirmeth, That he hath concluded that the Bowels were obstructed, before ever he handled the Hypochondria.

The stretching of the right Hypochondrion sheweth the part affected, together with the other signs, and sometimes pain, that is heavy and dull, which increaseth after meat, especially if exercise immediately follow; sometimes a dry Cough; difficulty of Breathing by reason of the nearness of the Diaphragma, and a greater weight of that part than of any other.

The signs of the causes are these if it come from humors, the pain is more heavy, extending and fixed; if from Wind, it is sharper and more moveable; if from cold humors, there is more sense of weight in the right side, the Face is more pale, there is no Fever nor thirst; there was a cold and thick diet without exercise that preceded; if it comes from hot humors, there is less weight, more

more thirst, the Face is yellow by reason of Choler, or red by reason of Blood, there is a Fever and a pricking pain sometimes, and hot Diet went before.

PROGNOSTICK. The Prognostick of this Disease is to be made thus:

A new Obstruction is easily taken away, an old hardly.

An Obstruction of the Liver, except it be speedily and wholly taken away, useth to bring many Evils; namely, Putrefaction of humors, Feavers, Inflammations, divers Fluxes of the Belly, constant and vehement, because the nourishment cannot pass to the part: the Cholick, jaundice, evil habit of body, Dropsie, Schirrus, and other infinite Diseases, so that *Avicenna* calls Obstructions the Mother of Diseases.

An Obstruction made by humors, is worse than that which comes of Wind.

That which comes of crude and flegmatick humors, or of Wind, is sometimes cured by a Feaver; because the heat doth discuss the Flatus or Wind, makes Flegm thin, and more apt to flow.

CURE. The Cure of an Obstruction is to be begun with an universal Evacuation of the whole body, by a Potion agreeable to the nature of the Disease: Afterwards if there be signs of Plethory or fulness, and if the body be not very thin, you must draw blood out of the Liver Vein in the right Arm.

Then prescribe this Apozeme:

Take of Smallage, and Parsley, and Fennel Roots, infused a whole night in white Wine, of each one ounce: the Roots of the greater Celandine two ounces: Fearn Roots, Elicampagne barks, the Roots of Capers, the inward bark of an Ash, and Tamarisk, of each half an ounce: Wormwood, Agrimony, Maiden hair, Germander, the tops of St. John's Wort, and the lesser Centaury, of each one handful: Smallage, Parsley, Annis, and Fennel seeds, of each half an ounce: Clean Senna, Polypody of the Oak, and the Kernels of Carthamus seeds, of each two ounces: Epithymum, or Dodder of Thyme one ounce: Ginger and Cloves, of each one dram; the flowers of Tamarisk, Marigolds, and red Vetches, of each one pugil: make a Decoction to a pint and a quarter; dissolve in the straining of the Syrup of the Five Roots and of Roses solutive, of each two ounces: make an Apozeme, clarified and aromatized with two drams of Cinnamon for four mornings draughts, adding to every Dose one dram of Cream of Tartar, Salt of Wormwood and Tamarisk, of each half a scruple.

In the last Dose (if the first hath not sufficiently purged) dissolve of the Electuary of Citrons Solutive and Diacarthamum, of each one dram and an half.

Sometimes we put white Wine in the Decoction before-mentioned. Sometimes a little Vinegar, according to the nature of the Patient.

If the Patient be dainty, and will not take an Apozeme, instead thereof you shall give these Broths:

Take of Smallage, Parsley, and Sparagus Roots, of each half an ounce: Agrimony, Hyssop, Maiden hair, of each one handful: Crystal of Tartar one dram: boyl them with a Chicken or a neck of Mutton, make Broth for nine days together every morning.

The Crystal of Tartar dissolved in new made Broth and strained is better, for when the Decoction is cold, for the most part it congealeth again, and is separated from it; and when you give it in the Broth, you must stir it about well with a Silver Spoon afore it be taken, or you will leave the greater part in the bottom of the Dish.

Every other day, infuse in his Broth, half an ounce of Senna, and one dram of Annis seeds.

As long as he taketh these Medicines, and after as often as need requires, let the Region of the Liver be fomented every morning one hour before he taketh his Broth, and every evening one hour before Supper, with this following Fomentation:

Take of Marsh-mallow and Briony Roots, of each one ounce and an half: the Roots of Ranewort, Cypress, Eryngus, the Barks of the Roots of Capers, and the middle Rind of Tamarisk, of each one ounce: the Leaves of Mallows, Marsh-mallows, Violets, Agrimony, Germander, Mints, and Wormwood, of each one handful: Linseed, Fennel seed, and Juniper Berries of each half an ounce: Carriander seeds, and yellow Sanders, of each three drams: Broom, Elden, Chamaemel, and Malilot flowers, of each one pugil: boyl them all in two parts of Chalybeate Water, and one of white Wine, added in the end: and when it is strained, add half a pint of Vinegar: Foment the part as afore said.

After the Fomentation, let the part be anointed with the following ointment:

Take of Oyl of Lillies and Capers, of each two ounces: the Juices of the Roots of Briony and Smallage, of each three ounces: Boyl them till the Juices are consumed, adding the Ointment of Marsh-mallows, and Gum-Ammoniack dissolved in Vinegar, and strained, of each one ounce: Carriander seeds, and Spickard, of each one dram and an half: yellow Wax as much as will make an Unguent.

Unguent. Use it as aforesaid, adding in the time of anointing, a little Vinegar of Roses.

After the use of these Remedies, this Opiate following is good to wear away the reliques of the obstructions, and recover strength to the part.

Take of Conserve of Wormwood, Maiden hair, and the Flowers of Tamarisk, of each one ounce; the Conserve of Elicampane Roots, and Citron peels candied, of each half an ounce; one candied Myrobalan; candied Nutmegs three drams; Confection of Alkermes two drams; the Powder of Diarrhodon Abbas, one dram; Salt of Wormwood and Tamarisk, of each two scruples; Saffron one scruple; Ambergrace half a scruple: with the Syrup of Citrons make an Opiate, of which let him take the bigness of a Chestnut every morning two hours before meat, and drinking after it a little Hippocras.

Warm Baths are also very good, in which softening and opening things have been boiled.

If the obstructions are very stubborn, these following Pills are very good.

Take of the best Aloes infused in the Juice of Wormwood very well, half an ounce; Gum-Ammoniack dissolved in Vinegar and strained, three drams; Myrrh dissolved in warm Wine, and strained: two drams; the Power of the three Sanders, and Cristal of Tartar, of each one scruple; Agarick newly made into Troches, and of the best Rhubarb, of each two drams; the Salt of Wormwood and Tamarisk, of each half a dram; Saffron half a scruple; with the Syrup of Roses solutive, make a Mass of Pills, of which let him take half a dram two hours before dinner twice in a week.

Instead of the Apozeme aforesaid, you may make an old Cock Broth, when the obstructions are old and stubborn.

Take of Polypody of the Oak, and Carthamus seeds, of each one ounce and an half; the tops of Thyme and Epithimum, of each one pugil; Annis, Fennel, and Caraway seeds, of each two drams; clean Senna two ounces; Crystal of Tartar half an ounce; beat them, and fill the Belly of an old Cock therewith: boyl them in three parts of Water, and one of white Wine, till the Belly of the Cock fall from the bones. Make Broth, and let the Patient take it four mornings.

Or (which is better) make a Decoction for one draught every day of the fourth part of the Ingredients.

To this Broth you may add Herbs, and opening Roots in a small quantity.

Quercetam commends exceedingly in his Dispensatory, the Compound Powder of the Root of Cuckow-pintle to open obstructions; of which you may give two drams for divers days together, in a convenient Decoction.

But of all Remedies, to take of old obstructions, Medicines made of Tartar, Vitriol, and Steel, are the best.

Of Tartar there is made Crystal, Salt and Spirit, which are to be given in divers forms.

The use of Crystal of Tartar is formerly mentioned in the Apozeme, and Physick Broths made either of a Chicken, or old Cock.

Concerning this Medicine, young Physicians are to be admonished, that it is of more force than it is commonly supposed to be, although we seldom observe it in Practice, by reason of the negligence of Apothecaries, the deceit of false Chymists, and vulgar Distillers, which distil Chymical Medicines to the Apothecaries, of which few are good, but most adulterate.

The negligence of Apothecaries for the most part is, that they had rather buy Crystal of Tartar of such Fellows, than make it themselves (though it be the easiest of all) because they sell it cheaper than they themselves can make it: for those Impostors will sell a pound for seven pence, or eight pence, from which alone the Apothecaries might argue deceit, perceiving, that they would be losers in so selling, if it were rightly made.

The deceit lieth here. These Impostors put a little Tartar, and a great deal of Allum into their Decoctions, not because Tartar is sold dearer, but because it yields but a little Crystal; but Allum will run all into Crystal. Hence it is that the Physicians are deceived of their intentions, because Allum is astringent, which is contrary to the opening Faculty which they desire.

Moreover, There is another wrong done to this Medicine, when it is made in a Brass Kettle, which leaves a malignant quality upon the Medicine; for it is a known and vulgar saying among Apothecaries, you must not boil sharp things in Brass Vessels, because they easily pierce, and attract a noxious Tincture from them. But the Crystals of Tartar are most sharp, called by some *Acidum Tartari*, or the sharpness of Tartar.

This Error is often made by Apothecaries; and almost all they who make this Crystal themselves use Brass Vessels, so that I have seen some Tartar look Skie-coloured from the Verdugreene which it hath taken from the Copper. Therefore Physicians shall do conscientiously, honourably, and for the good of their Patients, if they cause their Apothecaries to make Crystal of Tartar themselves, and in Glass, Iron, or Earthen Vessels glazed.

The Salt of Tartar hath great power to open obstructions, and may well be mixed with Apozem, Opiate,

Opiates, and opening Pills, But the chief use of it is in a loosening Prisan, or Barley Water made of two drams of Senna, infused in eight ounces of cold water, with one scruple, or half a dram of Salt of Tartar, by which the Tincture of the Senna will be powerfully extracted; so that this Prisan shall work better than any ordinary one; and continue many days it takes away all obstructions: we have seen Quartan Agues cured, by the use of it fifteen days together. If you fear the sharpness of the Salt of Tartar, you may correct it with the Spirit of Sulphur, or of Vitriol, putting fifteen drops of Spirit, to half a dram of Salt.

You may find the use of Spirit of Tartar in our Observations for the Cure of the Dropfie, under the Title of a Diuretical Spirit.

Of Vitriol, only the Oyl or Spirit is used in Apozemes, Syrups, and other Forms of Medicines.

This following Syrup, which is good against all Obstructions of the Liver, Mesentery, and Veins, may be for an Example, by which many through continual Feavers falling into evil Habits and Dropfies have been perfectly cured.

Take of the Roots of Smallage, Elicampane, Sparagus, Eringes, of each one ounce: Leaves of Agrimony, Ceterach, Maiden-hair, Dodden, Carduus, of each one handful: the tops of Sea Wormwood and of the lesser Centaury; of each half a handful: Winter Cherries one ounce; Spring water six pints; boyl them till two pints of the straining remain; in which dissolve of the Juyce of Succory and Burnet refined, of each one pint: the juyce of Fumitory and Hops of each six ounces: Fennel and Parsley juyce, of each three ounces: Vinegar of Squibs one pint and an half: white Sugar six pound: make a Syrup, to which add of the Oyl of Vitriol as much as will make it sharp: of which let the Patient take three spoonfuls before Break fast and as much before Dinner and Supper.

The Natural sharp Baths shew the efficacy of Vitriol, the use whereof is frequent and profitable in all Diseases coming of Obstructions.

But the Spirit of Vitriol mixed with the Salt or Spirit of Tartar, is much commended by the Chymists, and of them they make Tartar Vitriolate, and that rare mixture of Spirit of Vitriol, Tartar and Treacle, which may be mixed with other openers.

Lastly, There are divers Medicines made of Steel both by Galenists and Paracelsians, which plainly opening Obstructions presently, compel all men to use them, even those who reject all Medicines made of Mettals, as enemies to our Natures.

These Medicines of Steel are made either in the Form of Wine, Syrups, Opiates, Pills or Lozenges.

Steeled Wine is made thus:

Take of the Filings of Steel four ounces: Eryngo Roots, and Elicampane, of each one ounce and a half: yellow Sanders one ounce: red Coral and shavings of Ivory, of each six drams: Cloves, Nutmeg and Cinnamon, of each two drams: Flowers of Broom, Rosemary, and Epithimum, of each two pugils: the best white Wine six pints: steep them eight days in Balneo Mariæ, or behind an Oven: then strain them through an Hippocras bag, and let the Patient take two or three ounces every morning two hours before meat for fifteen days, or more, if need require.

Or make it thus:

Take of Steel prepared with Sulphur, one ounce: Elicampane, and the middle rind of Tamarisk, of each half an ounce: Senna three ounces: Epithimum one ounce: Fæcula Brionia, and Cinnamon, of each two drams: Powder of the three Sanders, one dram and an half: Agrimony water, and white Wine, of each one pint: Infuse them three days in Balneo Mariæ. Let him take three or four ounces when it is strained, three hours before meat.

Commonly they use the Infusion of Steel in white Wine, or Claret for ordinary drink, with much Water for two or Three Moneths together.

You may make a Syrup of Steel thus:

Take of Filings of Steel steeped in Vinegar, two ounces: the inward rind of Tamarisk half an ounce: Ceterach half a handful: Cinnamon three drams: Warmwood and Agrimony Water, of each half a pint: white Wine one pint: Infuse them six days in a warm place: add to the straining, Sugar one pound and an half: make a Syrup. Let the Patient take every morning two or three ounces.

For the preparation aforesaid of Steel, you must steep it in Vinegar in the Sun, while the Vinegar is consumed three times, and grind it upon Marble.

This Syrup may be made Purging, and better if you dissolve the Sugar with a pint of water wherein three ounces of Senna, and half an ounce of Rhubarb have been steeped a whole night.

The Powder of Steel is made thus, taken out of Quercetan's Dispensatory.

Take of Filings of Steel, either commonly prepared, or with Sulphur, one ounce: the fæcula of the Root of Cuckow-pintle one dram and an half: Ambergreece half a dram (for the Poor, a Cordial

Cordial Species will serve instead of Ambergreece) Coral and Pearl prepared, of each two drams: Amber prepared and Cinnamon, of each four scruples; Sugar as much as is sufficient to make a pleasant Powder, of which let him take half a spoonful, or two drams with Wine for fifteen days.

Of the same Powder and Sugar dissolved in Turnep Water and Confection of *Alkermes*, may be made very pleasant Lozenges to be taken as the former, Or,

Take of Steel prepared with Brimstone half an ounce: Confection of *Alkermes* two drams: Ambergreece one scruple: Sugar dissolved in Rose Water four ounces; make Lozenges: Let him take two drams every morning.

Instead of the Powder the Extract of Steel may be used, made in white Wine for those who are dainty.

Divers Opiates are made also of Steel; these following are best;

Take of Conserve of the Flowers of Tamarisk and Maiden-hair, of each one ounce and an half: Conserve of the Roots of Elicampagne six drams: Steel prepared either with Sulphur or Vinegar one dram: Salt of Tamarisk one dram: Spirit of Vitriol half a scruple: with the Syrup of candied Citrons make an Opiate, of which let him take two or three drams every morning. Or,

Take of the filings of Steel half a pound: white wine one pint and an half: mix them in a Glass, set it to the fire, let it be boyled gently, stirring it up and down, till a scum arise, then take the frothy and fat part of the Steel which is separated by the heat, and put it with Wine into another Glass: do this four times, adding fresh Wine, heating and separating them, set it on a gentle fire, till it be hot and grow thick as Honey, keep it for your use. Or,

Take of Steel so prepared six drams: Parsley and Carrot seeds, the species of *Diacurcuma*, and *Diarrhodon Abbatis*, of each one dram: Cinnamon half a dram: with clarified Honey make an Opiate, of which take three drams or half an ounce every morning. Or,

Take of Steel prepared with Brimstone one ounce: the best Senna, Rhubarb and Agarick, of each two drams: *Diarrhodon Abbatis* one dram: Saffron one scruple: with Syrup of Roses solutive, make an Opiate: of which let him take two drams every morning for fifteen days, three hours after meat.

Pills of Steel are as good as the rest, and they may be made thus:

Take of Steel prepared with Brimstone half an ounce; the best Aloes, Senna, Agarick and Rhubarb, of each one dram; *Diarrhodon Abbatis* half a dram; Saffron half a scruple; with Syrup of Roses solutive make a mass of Pills; of one dram whereof make six gilded Pills, which give in the morning for fifteen days, three hours afore meat.

To these Pills you may add according to the kind of the disease and the Patients occasion, of Gum Ammoniack, Sagapenum, Opopanax, Myrrh, Gentian, Birth-wort, Mastich, Nutmeg, and the like.

In all Medicines made of Steel, this is always to be observed, That Exercise be used after them, as Walking, to make the strength of the Medicine to go into the parts obstructed: This Walking must be for two hours after; after which give a little Broth, in which opening herbs and roots have been boyled.

Besides all these Remedies, the Chymists commend the Mercurial Purges, of *Mercurius dulcis*; especially given with ordinary Pills, or Extracts, because Mercury doth violently penetrate, and open Obstructions.

The Bezoar Mineral is very much commended, and given with *Mercurius dulcis*; You may give it thus made:

Take of Bezoar mineral twelve grains; *Mercurius dulcis* six grains; Conserve of Roses one or two drams; make a Bolus which must be given many days.

If there be an Obstruction of the Liver in a Cholerick body, with a hot and dry distemper of the part, then must you give cooling or temperate Openers, which shall be shewed in the Cure of *Flatul Hypochondriacus*, mentioned among the diseases of the Spleen.

For his ordinary drink let him take water and small Wine wherein Steel hath been infused; Or, a weak Decoction of Tamarisk, Agrimony, Ceterach, Maiden hair, Burnet, all or some with Wine.

Some commend the Infusion of the Wood against the Stone called *Lignum Nephriticum* for ordinary drink; others the Decoction of Eglantine or Sweet Brier which opens very powerfully, and strengtheneth; and they say that many have been cured of desperate diseases by that alone.

But the infusion of the filings of Steel made in white Wine, or thin red Wine, doth open better mixed with the afore said waters, or with ordinary water; for by this Medicine alone many Virgins have been Cured of the Green Sickness, and this Wine will work better, if they take every morning two ounces of clear Wine, besides the ordinary drink.

Chap. 4. Of the Jaundice.

The Jaundice is a yellow colour of the whole Body coming of Choler, spread over all the Skin. It is therefore a Symptom of the Quality changed. And now presently, that vulgar difficulty which is controverted by almost all Writers, offers it self; namely, That the yellow colour in the Cornea doth immediately hurt the Sight, making all Objects appear yellow. To which I (that I may answer in a word, without Circumstances) I say, that it is a disease in the increase of Number; for since the Cornea ought to be void of all colour, that it may let the Species of Objects pass through pure and unchanged, if it have any preternatural colour, it hath a disease in the increase of Number, that is, more than what is necessary to the Natural Constitution thereof.

DIFFERENCES. Authors do make two sorts of Jaundice; Yellow and Black. The Black proceeds from the Spleen, and is very rare: therefore here treating only of the diseases of the Liver, we will speak only of the Yellow Jaundice.

CAUSES. The spreading of Choler upon the skin comes from many causes; which may be reduced to three Heads; namely, An evil disposition of the Liver; An Obstruction of the Bag that contains the Gall; and the Malignity of the Cholerick Humor.

The evil disposition of the Liver is divers; as Distemper, Inflammation, Obstruction, Schirrus, and whatsoever may so weaken the part, that Excrementitious Choler cannot be separated from the Blood, but is with it distributed through the whole Body.

The Obstruction of the Bag or Cystis, which contains the Gall, hinders the passage of it into the Guts, whereby it remains in the Liver, and goes from thence with the blood into the whole Body. This Obstruction is either from gross Flegm or Choler abounding, sometimes from little stones which are often bred in the Bag of the Gall; which may also be made narrow in the Passage, by the compression of some part nigh unto it, which is inflamed or Schirrous.

The evil of the Cholerick humor consists either in the great quantity thereof, which cannot be regulated by Nature, or be separated from the Mass of blood, or which so filleth the Bag of the Gall, that it cannot contract it self to expel it; or it consists in evil quality, which by corrupting of the Humors, doth hinder their due Evacuation, or stir up Nature suddenly to cast it forth, as you may observe in a Critical or Symptomatical Jaundice. This corruption happens in continual Cholerick Fevers; as also after Poyson is taken, or from the biting of some venomous Creature, by which the whole blood is turned into Choler.

SIGNS. The Signs of the yellow Jaundice are manifest: namely, a yellow Choler through the whole Body, especially in the White of the Eyes. Also an itching and laziness, bitterness of the Tongue, sometimes Cholerick Vomitings and Hiccoughs.

The signs of the causes are to be taken from their proper Fountains; for if the distemper of the Liver be hot, this Disease comes from Inflammation, Obstruction, Schirrus, or the like: the knowledge of which is to be taken from their proper Chapters.

These things properly shew the Obstruction of the Bag of the Gall, while Excrements, and a belly bound through the want of Choler, which useth to make the Excrements yellow or red, and to stir up the Expulsive Faculty of the Guts like a Clyster. The Urine is very yellow, inclining to red, and if you put a Linen Clout therein, it will die it yellow.

If it come from the malignity of the Cholerick humor, the Excrements of the belly are high coloured, and also the Urine, especially if it follow a putrid Fever, when the Jaundice is a Symptom, and then after the coming of the Jaundice the Fever remains: but if it be critical, the Fever ceaseth, and the Excrements with the Urine are well coloured. The External Causes, as Poyson and venomous bitings may be declared by the Patient, and those about him.

PROGNOSTICK. The Prognostick of the Jaundice is various, according to the variety of Causes. That is more curable which comes from the Obstruction of the Bag containing the Gall, because its passages are nearer the Guts, and the Matter cleaving thereto is easily sent into them, provided that the Obstruction come not from a stone, which because it cannot be dissolved, renders the disease incurable.

The Jaundice coming from an Inflammation or Schirrus of the Liver, is most dangerous; for one commonly ends in an Imposthume, the other in a Dropsie.

They who in a Fever have the Jaundice before the seventh day, are desperate, *Hip. Aph. 62. Sect. 4.* against which *Aphorism* there is another of *Hippocrates* opposed, which is in *4. de Victus* *Ratio in acutis*, in these words; *In a Cholerick Fever, if the Jaundice come before the seventh day with chilness, the Disease is cured: but if it come without chilness, it is deadly.* There in

Reason for what he saith; for when in the third, fourth and fifth day, the *Crisis* (or ground) of Judgment is healthful, if it be by Sweat, Urine or Stool, why should not a Critical Jaundice fall upon those days? And experience from many allowed Authors do testifie that the Jaundice doth often happen with safety before the seventh day. Now these Authors do interpret the aforesaid *Aphorism* thus; namely, That *Hippocrates* by the seventh day, understands any Critical day, and he mentioneth the seventh as the most noble day; and to be taken for all the rest. But that is a true Critical day of Judgement, afore which a full Concoction of the Matter causing the Feaver did appear.

CURE. The Cure of the Jaundice is by taking away the Causes: For if it come from a hot distemper of the Liver, or a Tumor in that part, you must consult with the Chapters afore-mentioned for the Cure of them.

But that which comes upon acute Feavers, if it be Critical needs no Cure. Yet if it be Symptomatical, the cure of it depends upon the cure of the disease upon which it depends.

That which comes from the Obstruction of the *Cysts* or Bag of the Gall, is cured by taking away of the Obstruction, which may be conveniently done by the Remedies mentioned in the former Chapter. To which you may add these as more proper.

First, take away part of the humor with this following Bolus:

Take of the Electuary of the Juyce of Roses, and *Diaprunis solutive*, of each three drams: the Powder of *Rhubarb* one dram: Saffron half a scruple: With Sugar make a Bolus, which you may give once or twice if the Body be of a very ill habit.

As for Phlebotomy, though *Galen* denieth it as unprofitable, yet if you perceive abundance of Blood, it is very good to abate it.

After general Medicines, this following Infusion used six or seven days, doth commonly pluck this Disease up by the Roots, if it be but young:

Take of *Madder* Roots half an ounce: the greater *Celandine* one handful: the tops of *Sea Wormwood* and of the lesser *Cenury*, of each one pugil: Cinnamon half a dram: Saffron half a scruple. Infuse them a whole Night in eight ounces of White-wine, and add to the straining half an ounce of white Sugar. Let him take it in the Morning three hours before Dinner.

Or you may make this Decoction following:

Take of *Celandine* Roots and Leaves one handful: the Leaves and Flowers of *St. Johns-Wort*, of each half a handful: the shavings of Ivory and powdered Goose-dung, of each three drams: Saffron half a dram. Put the powder of Goose-dung and the Saffron in a Clout, and boyle them all in equal parts of White-wine and Wormwood-water to one pint: and when it is strained, add one ounce of Sugar. Give it for three Mornings draughts, and repeat it if you think fit.

Quercetan commends for this purpose, the Dung of a Green-Goose that eats Grasse in the Spring, and the dried white Dung of an Hen, given for three days to the quantity of half a dram or a dram. And he saith, that the Dung of these Aerial Creatures is full of Nitre and Sulphur, and hath a wonderful faculty to cut, attenuate and dissolve.

Dioscorides commends the Juyce of Horehound for this Disease, and since his time, others and especially *Forestus*, who reports that some were onely cured by the use of the Syrup of the Juyce of Horehound, when other means failed.

Gesner commends the Nettle-Root thus prepared:

Take of Nettle Roots one pound: Saffron one scruple: Beat them well, and take out their Juyce with White-wine, and let the Patient take four ounces every Morning for four or five days, and cover himself to sweat after it.

While inward Medicines are given, let the Region of the Liver be anointed with this following Ointment:

Take of the Juyce of Smallage, Parsley and Succory, of each one ounce: White-wine Vinegar half an ounce: the Oyl of Tamarisk two ounces. Boyl them till the Juyce and Vinegar be consumed: then add of yellow Sanders and Spicknard, of each one dram: Wax as much as will make a Liniment.

After the Obstructions are taken away, the yellow colour will presently vanish by the strength of Natural heat, which will discuss the Humor from the Skin. But that it may sooner be gone, make a Bath of warm Water, and rub the Body therein, with a Bag of Barley and Bean-Meal.

CHAP. V.

Of the Schirrus of the Liver.

THe Schirrus of the Liver is a hard Tumor without pain, bred of a thick Humor, fastned and hardned upon the Liver.

DIFFERENCES. This Schirrus is twofold, Either it is exquisite or perfect, or imperfect. That which is a perfect Schirrus is laid down in the Definition propounded, which is without Pain or Sense.

That which is not exquisite or perfect hath some kind of Pain, and comes from a Matter less hardned; in a word, it is a Schirrus beginning, and not confirmed; but that which is exquisite is confirmed, so that they only differ in Degrees.

CAUSES. A Schirrus breeds in the Liver two ways; either from Defluxion, or Congestion of a thick and glutinous humor upon the part; or from Inflammation, which dissolveth the thin humors, and leaveth the thick.

The Matter of the former is Flegm or Melancholy, either sent from other parts, or bred in the substance of the Liver by an evil Concoction. For the producing of this humor, evil Diet is a main cause, if it be of thick, cold and viscous, or clammy nourishment; as also a flegmatick or melancholick Constitution and a Natural Straightness of the Liver. From whence Galen saith, 13 Meth. That a Schirrus easily breedeth in the Liver, Spleen and Reins. In the Liver, because the passages are narrow, and it is nourished with thick blood. In the Spleen, because it receiveth the thick blood. And lastly, in the Reins, because they are nourished with thick blood.

The causes of the latter Schirrus which followeth other humors, is the immoderate use of dissolving Medicines, or of Repercussives, which by cooling and binding do thicken the Matter, and keep it from dissolving. Besides, the Matter of the Disease, which is properly cold and thick, and will not be dissolved; or the weakness of the part, which cannot help the breathing forth of the humors. And lastly, a cooling and thickning Diet.

SIGNS. The signs of a Schirrus in the Liver, are a hardness in the right Hypochondrion, and that more than in an obstruction, next a heaviness in that part, especially when there is violent breathing, no Fever nor pain, by which it is distinguished from an Inflammation; or there is but little pain, as when the Schirrus is not exquisite or perfect. There is less repose upon the left side, because the Liver being hard and heavy, doth then lie upon the Stomach and burden it: the colour of the Face is pale and greenish, because when the Liver is Schirrus, there is no good blood produced by it. The whole Body also is fain away, because there is neither sanguification, nor distribution of nourishment as it ought to be.

PROGNOSTICK. The Prognostick of this Disease is given by Galen 2. ad Glaucum Cap. 4. in these words: *An insensible Schirrus is incurable, but that which is a little sensible is curable, though with much difficulty.* Also Galen Cap. 5. of the same Book, saith, *We have cured a Schirrus of the Liver often in the beginning of it; but when it hath been of long continuance, neither could I, nor any other that I ever heard of, cure it.*

An old inveterate Schirrus turns to a Dropsie incurable, of which some die sooner than others, if they have a looseness of the Belly therewith of long continuance.

A Schirrus which followeth the Jaundice, or causeth the same, is dangerous. Whence Hippocrates, Aph. 42. Sect. 6. saith, That if the Liver grow hard in them who have the Jaundice, it is an evil sign.

CURE. The Cure of a Schirrus, is first by the taking away of the Antecedent Cause, by the Apozeme which is prescribed in the obstruction of the Liver. To which you may add other Medicines proper to open obstructions.

Afterwards you must discuss the hard Matter with mollifying and opening things. For this end the Steel pills above-mentioned are excellent, especially if you add thereto Bdelium, Ammoniacum, and Sagapenum.

But if the hardness be very great, you must give these Pills following many days together.

Take of Gum Ammoniacum dissolved in Vinegar and strained, and again made thick, two drams; Bdelium and Storax, of each four scruples; mix them. Take one dram every other day.

And in the days between, let him use the Opiate, or strengthening and opening Lozenges prescribed in the cure of obstructions.

These following Pills have a wonderful Vertue to soften a Schirrus, and dissolve it.

Take of the best Aloes and Gum Ammoniack dissolved in Vinegar, strained and again made thick, of each half an ounce; Mercurius Dulcis two drams; Diagridium one dram. With Oxy-

mel of Squills make a Mass of Pills; of which let him take half a Dram four hours before Dinner, for twenty or thirty days together.

Zacutus Lusitanus, Obs. 41. Lib. 1. Praxis Admir. reports, that there was a strong Schirrhus cured by the use of Conserve of Horehound forty days together.

Some Practitioners commend the use of Turpentine thus prepared:

Take of Turpentine washed with White-wine one ounce and an half; Sugar half an ounce. Give one dram every day, or every other day, for it is an opening Medicine that provoketh Urin, and looseth the Belly.

All the time of Cure, let the Patient take White-wine, or thin Claret steeled, for his ordinary Drink.

Also the other Preparations of Steel before-mentioned, are very good.

Outwardly you must apply Fomentations, Oyntments and Plaisters, thus made:

Take of Marsh-mallow Roots, Briony and Lilly Roots, of each one ounce; Mallows, Violets, Pellitory of the Wall, Wormwood and Agrimony, of each one handful; Linseed, Fenugreek and Dill-seed, of each half a dram; Camomel, Melilot and Rose-flowers of each one Pugil. Boyl them in three parts of water, and one of White-wine, or in Water and Vinegar. With the straining let the Region of the Liver be fomented every Morning and Evening.

If the Schirrhus be very great, add to the Decoction Flowerdeluce, wild Cucumers, and Dwarf-Elder-Roots, and make the Decoction in Tripe-Broth and White-wine.

Take of Oyl of Lillies, Camomel, Melilot and sweet-Almonds, of each one ounce; Oyl of Roses and Wormwood, of each half an ounce; Gum-Ammoniack dissolved in Vinegar three drams; Wax two drams; make a Liniment, with which anoint the part aforesaid after the Fomentation.

If you desire a stronger Liniment,

Take of the Juice of Briony and wild Cucumber, of each two ounces; the Oyl of Capers and Tamarisk, of each three ounces; White-wine one ounce. Boyl them till the Juice and the Wine be consumed, then add two drams of Wormwood in Powder, Gum-Ammoniack dissolved in Vinegar half an ounce: with a little Wax make a Liniment.

Take of the Emplaster de Mucilagibus one ounce; Melilot half an ounce; Gum-Ammoniack melted in the Juice of Wormwood three drams; soften them with a little Oyl of Wormwood and Lillies, and make a Plaister to be laid on after the Liniment.

The Leaves of Henbane boiled in Vinegar are good to be outwardly applied to the part, made into the form of a Cataplasm or Poultis, with oyl of bitter Almonds.

To these you may add Baths made of softning and digesting things, and of strengthners, such as we prescribed for Fomentations, and let the Patient use them by turns.

And finally, make an Issue in the right Leg, that part of the Matter offending may be that way drawn forth.

Chap. 6. Of the Dropsie.

A Differences.

Hippocrates makes two kinds of Dropsies, namely, an Universal, and a Particular. An Universal Dropsie, is that which is in the whole Body, or over the whole Belly. A Particular is that which is only in one part: hence there is a Dropsie of the Head, Breast and Womb; of which here we shall not speak, but only of the Universal.

Galen gives three kinds of this Universal Dropsie, namely, Ascites, Tympanites, and Anasarca, or Leucophlegmatia.

CAUSES. Ascites is a swelling of the Belly, caused of a serous humor; nor doth the Belly only swell, but many times the Feet, Legs, Thighs and Cods. Nay, an Ascites sometimes begins with a swelling in the Feet, which ascends after to the Legs, and so to the Thighs and Belly.

This serous humor, as it is of the nature of water, it is cold; but as it is salt, it hath in it heat, which then is increased by the nearness of the Bowels, and more by the putrefaction which it gathereth by long continuance: hence comes a Fever and Thirst, namely, from the stinking salt Vapors which do infect the mouth of the Stomach.

It falls out sometimes, that this watry humor is not contained in the cavity of the Belly, but in certain Bladders growing to the parts of the lower Belly.

An Example whereof is given by Schenkius, Lib. 3. Observation; and Mauritius Cordus, Com. 5. in Hip. Lib. 1. of Diseases in Women. Galen supposed (and almost all Physicians, new and old have followed him) That every Dropsie comes of a cold Liver, which cannot sanguifie or make Blood compleatly, but instead thereof much water, Flegm or Wind. Which Opinion, as it is most true in Anasarca, and approved; so in Ascites and Tympanites it is much questioned by many Modern

Modern Writers, because in the opening of many that died of Dropsies, the Liver hath been found very sound, as is manifest by many relations in those Authors mentioned. Moreover, *Hippocrates* 2 *Prorrh.* wittily affirms, that a Dropsie may come either from the Liver, or from some empty part; by an empty part, he meaneth all that space from the Ribs to the Guts, and the parts contained in it. Also *Hip. 4. de morb. Mulierum*, mentions a Dropsie coming from the Spleen. To which places of *Hippocrates* they usually answer thus; That the Liver is always affected either primarily, or secundarily; so that there is never a Dropsie before there is a hindrance of Sanguification, or breeding of blood. But two Reasons do strongly oppose this Doctrine: The first is from the Experience before-mentioned, namely, That if the Liver ought necessarily to suffer in the producing of a Dropsie, it would never be found free and unknit in the dissection of a dead body. The second is, That if the Liver should breed watry blood, it would be sent into the whole body, as in *Anasarca*; nor can a sufficient reason be given, why that ferous humor bred in the Liver should be sent to the Belly, and not to other parts.

As for the cold distemper of the Liver, that is denied by *Trallianus*, *Avicenna*, and others, who affirm, That a Dropsie may arise from a hot distemper of the Liver, and cannot be cured but by cooling means. And this may be maintained by the Authority of *Hippocrates*, in 2. *Progn.* *A Dropsie* (saith he) *coming after an acute Disease, is evil, for it doth not take away the Feaver.* If therefore a Dropsie may come while the Feaver is, it is clear that there is still a hot distemper. Neither could that ever please me, which is usually spoken by *Galen's* Servants, That the Native heat is dissolved by a hot distemper, and much diminished, and that diminished heat may be called cold. For so in a *Hectick Feaver*, and other constant Feavers, in which the Natural heat is much diminished, we should always blame a cold distemper, and the symptoms which follow should be imputed to cold, and not to heat. From whence, who doth not perceive that there would arise a great confusion in the searching into the Causes of Symptoms.

Among the late Writers *Carolus Piso*, whom *Sennertus* followed, hath dived most deep into the true Causes of *Ascites*, which he affirms to come from a ferous Matter contained in the Meat and Drink, which by reason of some preternatural cause, is stayed too long in the Gate and hollow veins, not sent into the body, as in a Natural state and condition it useth to be, but into the capacity of the Abdomen. This ferous humor is retained in the Veins from the whole body, by reason the attractive faculty of the parts to which it should be carried is either hurt or hindred.

Now the chief parts which draw the ferous Matter, are the Liver and the Spleen; for they attract the Chylous Matter in which the moisture of meat and drink is contained. As also the Spleen draws drink to it self pure and without mixture; as *Hippocrates* taught, and Experience confirms, that they who drink much after meat, do presently avoid it by Urin; which learned Authors say, Is by reason the Spleen sucks the watry Matter before there is a perfect Concoction made in the Stomach.

The attraction or drawing quality of the Liver and Spleen is lost chiefly by defect and weakness of Natural heat; the Natural heat is debilitated by a cold or hot distemper, or by suffocation.

A cold distemper coming either from too cold a Diet, from loss of too much Blood and Spirits, or any other Cause, doth destroy the Natural heat of the Liver and Spleen, and so hinder their Actions.

A hot distemper doth disperse the Native heat; whence being made weaker, the Liver and the Spleen becomes less active. This comes from Feavers, much Wine, or hot Meats.

Lastly, The Natural heat is weakned by Suffocation, when there is too much blood in the veins, especially if it be foul, as when the Terms or Hemorrhoids are stopt, by which the blood was cleansed formerly, but now by stoppage corrupted.

Also the attraction or drawing vertue of those parts is hindred by obstructions, which hinder the free passage of the ferous Matter. So a Dropsie followeth a Schirrhous of the Liver and Spleen, not only because those parts being weakned cannot produce good blood, but especially because they are not able to attract and send to other parts whatsoever is drunk.

Here it may be objected, That in a Dropsie the whole body is nourished by blood bred in the Liver of a Chylous matter which it draweth to its self. We answer, That the Liver doth better attract that which is most familiar unto its self, and most fit to be made blood; but it draweth to it less than is sufficient, by reason of the weakness of the attractive faculty. Hence it is that the body grows lean, because it draws some water along with the Chylus, and leaves the rest in the Meferaick Veins, and the Veins of the lower Belly, which is by degrees carried into the capacity of the Abdomen.

We do not deny that Sanguification or making of blood is hindred in a Dropsie, especially when the distemper is very cold or very hot, or the obstruction or Schirrhous great, for then there cannot be a perfect making of blood. But we deny that that is the next and immediate cause of a Dropsie, but rather an effect thereof, when the water corrupted in the Abdomen doth also corrupt the Bowels that swim therein.

Next to the Liver and Spleen, the Reins do attract the watry Matter which is in the hollow Vein, and free the whole body from the superfluity thereof, so that if at any time they do not their office, there remains much Matter in the Veins, which being sent to the Abdomen do quickly make an Ascites; now the attraction of the Veins may cease for divers Causes, because of a cold Distemper, Tumors, Ulcers, and Obstructions, which will diminish, abolish and intercept their Function.

Lastly, The distribution of water is hindered from some external cause, as when much cold water is drunk, which Nature cannot govern, nor sufficiently distribute into the veins. So *Carolus Pisco* reports of a young man that had a Tertian Ague, and drinking water exceedingly in his Fit fell into an Ascites, from which by the taking of one Lozenge of Diacarthamum he was cured by discharging the water which was in the Abdomen, but if he had continued drinking so much water any longer, he had not been so easily cured, because it would have brought great obstructions and a cold distemper of the Bowels, by reason of loss of natural heat.

But it is questioned of many by what ways that serous Matter should be carried by the veins into the capacity of the Abdomen? to whom we may plainly answer, by saying from *Hippocrates*, that in a living body all things are passing to and fro, so that in time of necessity not only thin and serous Matter, but also that which is very thick may be sent through the insensible passages. So in a Pleurisie, Blood and Matter will pierce through the thick substance of the Pleura and Membrane which covers the Lungs, and be spit forth at the mouth. So in a Fracture of the Leg or Thigh, which happens without hurt to the muscles and skin, the matter which floweth from the broken bone pierceth through the substance of the other parts, and wets the Boulsters and Rowlers.

So also in a Dropsie oftentimes a great quantity of water is vented in one day by giving of Quick-silver, which cannot be, except the water contained in the Abdomen doth pass through the Tunicles of the Guts.

Nor is the objection of *Fernelius* of any force, when he saith, That Nature had in vain made so many open ways, if the humors can pass through those invisible passages. For we answer, That in an ordinary and natural motion of humors ordained for the nourishment of the whole body, those passages are necessary through which they may easily flow, but in an extraordinary case provident Nature doth find out extraordinary ways by which she may cast out hurtful Matter, or at least send it to a place less dangerous.

Fernelius objects again, That in them who have died by a stoppage of Urin for twenty days together, it was never perceived that any water went through those blind passages. We answer, That Nature doth not always work the same way in preternatural causes, nor send hurtful humors to the same places, but especially to those parts which are more disposed to receive them through weakness.

So in the suppression or stoppage of Urin, the serous humors flow openly through the Veins and Arteries, and fill them, and if it find any part weaker than the rest it falls forcibly upon it: hence it is that some die of the hurt of one or other remarkable part. So nothing hinders (if the parts of the Abdomen in which the Veins and Arteries end) be grown weak, but that the watry humor may be sent into its capacity or hollowness.

Nor is that true which *Fernelius* would infer, namely, That a Dropsie never comes from suppression of Urin, for Reason and Experience teacheth the contrary; as we shewed before in the Discourse of the loss of Attraction in the Reins: but you must observe, that the stoppage of the Urin doth make an increase of water rather in the branches of the hollow vein, than of the Gate-vein, or *Vena Porta*, by which the watry humor chiefly flows into the capacity of the Abdomen, as appears by what followeth.

Therefore we may answer this Question, by saying, That the water got into the hollow of the Abdomen by the insensible passages, though there are also other manifest ways by which it may pass.

Hippocrates, Aph 35. Sect. 9. hath shewed them, for (saith he) they who have much water about the Liver, if it get into the Omentum or Cells, their Belly will be filled with water, and then they die. The meaning of which Aphorism is (though *Galen* did not plainly see it) that the water from the Liver doth flow into the branches of the *Vena Porta* which go to the Omentum, and when they are filled either by their Tunicles made thin by Diapedesis or Rarification, or by the Mouths of the Vessels being opened by Anastomosis, the water gets into the Cavity of the Abdomen. This happens often in the Spleen also, when it draws water in abundance from the Stomach, as appears by many sayings of *Hippocrates*; and in lib. 4. de Morbis, he saith, That water may press from the Spleen to the Omentum or Cell, in these words; Drink is also carried into the Stomach, which when it is filled the Spleen takes it from thence and sends it to the Veins and the Omentum. From which we may perceive, that water chiefly gets into the Abdomen, by the veins of the Omentum which are called Epiploicæ and Gastrepiploicæ, although it may pass also through other veins.

Besides

Besides the aforesaid Causes of a Dropsie, which are more ordinary, there are mentioned by Authors some less usual, confirmed by Observation: and these come from the disorder of some peculiar part, not only of the Liver and Spleen, but also the Mesentery, Sweet-bread, Stomach, Guts, Reins, Bladder and Womb, namely, when the *Homiosis*, or faculty to convert Nourishment into themselves is hurt from some great disease, so that their proper Nourishment is corrupted and turned into water. So *Galen*, *Comment. Aph. 55. Sect. 7.* saith, That watry Bladders are sometimes in the out-side of the Liver, which being broken, send water downwards into the Cavity of the *Abdomen*, the increase whereof breeds a Dropsie.

Fernelius supposeth, That the Liver being very dry hath clefts like the parched Earth, and that through them there flows a constant water which fills the Cavity of the *Abdomen*. Others say, that a Dropsie may come from the Guts, if they be perforated, or pierced through, and yet the Patient die not presently, but a watry Humor still flows through them into the Cavity. It comes also from the Kidneys, if they be much ulcerated and water flow from them. So *Platerus* reports of one that in a Dropsie had many Ulcers in both Kidneys, from whence both Matter and Water flowed into the Cavity. There is also a Story in *Sennertus*, taken out of *John Heinzius*, of a certain Woman who had a Dropsie from the distemper of the Womb, whose Bowels were all sound, except the Testicles or Stones which were found to be swoln as big as the Head of a new born Child, being blew, hollow, and full of Ulcers, from which there came a serous Matter which caused the Dropsie.

The Dropsie called *Tympanites*, hath its name from *Tympanum* a Drum, because the *Abdomen* is stretched out like a Drum, and if you strike it with your hand, it sounds like it. This stretching comes from Wind shut up in the Cavity of the *Abdomen*. But sometimes this Wind is in the Cavity of the Guts; which *Platerus* observed, saying, In some that have been thought to die of a *Tympany*, after they were opened, have had no wind coming forth of the Cavity of the Belly: neither did their bellies but their Guts sink; especially the thin Guts, which were so stretched with Wind that they came forth so rolled together, that they could not be again thrust into the Belly.

But we must observe, That the wind which caused a *Tympany* is seldom contained in the Belly alone, but for the most part mixed with Water; as in an *Ascites*, not only Water but Wind also is contained; and both these Dropsies have their name of that which predominateth: if there be more Wind than Water, it is a *Tympany*; but if more Water than Wind, an *Ascites*: but if they be equal, it is between both: so that we may doubt whether that Dropsie be a *Tympany*, or an *Ascites*.

The material cause of Wind is a crude humor and thick, whether it be Flegm or Melancholy, which being stirred and made thin by heat, sends forth thick Vapors which are hard to be dissolved, and these are called *Flatus*.

This crude and thick humor is partly in the Stomach and Guts, but especially between the Membranes of the Midriff and Guts, from whence it is more hard to be moved than from the Cavity of the parts aforesaid. The 11. *Aph. Sect. 6.* of *Hippocrates*, makes this very probable; They who have pain and griping about the Navel and Loyns which cannot be removed, have a dry Dropsy. For because the Mesentery is joyned to the Guts by the fore-part, and to the Loyns by the hinder-part, we may easily perceive, that the pains which reach from the Navel to the Loyns come from the Mesentery. Besides, the greatness of the pain shews that the Cause is deep in the substance of the parts, and cannot be removed. For if it were in the Cavity of the Stomach and Guts, it would easily be remedied.

Concerning the Efficient Cause Authors differ; some say it comes from a Cold, some from a hot distemper. They which accuse a cold distemper, they have *Galen* on their side, who says, That Wind is bred of a weak heat. To whom we answer, That heat may be said to be weak in respect of the Matter which cannot be dissolved or dissolved thereby. But this is to be imputed to the Matter, which is rather defective than the heat, which is commonly too great and preternatural. And we must acknowledge with the Learned, That a burnt Melancholick humor is most fit to breed a *Tympany*, which proceedeth from the parching heat of the Bowels, which heat doth stir that Matter, and produceth from it thick Vapors that are hard to be dissolved.

The Dropsie called *Anasarca*, comes of a Flegmatick humor spread through the whole body, and therefore the Body is swoln and white; from whence the Disease is called *Leucophlegmatia*. This Flegm comes from a cold liver, which instead of good blood produceth crude and flegmatick; which when it cannot be turned into the substance of the parts, leaves the crude part that is unfit for Nourishment upon them, and makes them swell; hence comes *Anasarca* or *Leucophlegmatia*.

This Disease beginning is called *Cachexia*, or an evil Habit, and turns into *Leucophlegmatia*, from which it differs but in degree.

The Antecedent causes are all things that cool the Liver too much, and hinder its concoction, as too much cold and moist Diet, the stopping of the Terms or Hemorrhoids, Obstructions, cold Tumors,

more Schirrus and large bleeding, and other great Evacuations, by which the Native Heat is diminished.

SIGNS. The signs of a Dropsie and every sort of it, may be known by what hath been said. In an *Ascites* you may know that there is water in the *Abdomen* by its greatness, soft swelling, and broad, and if you press the sides you shall easily hear a noise of water, and then the Patient turns from one side to the other, and then the whole Belly lieth as it were on that side: then the Feet and Cods swell, but the higher parts grow less; the Urine is little and thick, sometimes red, because there goes but little water to the Reins and Bladder, and stays long there, by which means it becomes red and thick. In the progress or increase of the Disease there is difficulty of Breathing, by reason of the abundance of water which lieth upon the *Diaphragma* or Midriff, especially when the Patient lieth down, and therefore he is forced to stand or sit most usually. There is a troublesome thirst from the saltness of the humor, with which the Stomach swimmeth. And lastly, there is a constant lingering Fever from the corruption of this water, which at length doth corrupt all the Bowels swimming therein.

In a *Tympany*, the belly being strook sounds like a Drum; the Bulk of the belly is less burdened than in an *Ascites*: There were formerly pains about the Navel and Reins, when the Patient lieth with his face upwards, his belly remains hard and stretched forth, nor doth it turn it aside when he turneth himself.

Lastly, In an *Anasarca*, not only the Belly, Thighs and Legs, but also the Hands, Arms, Breast, Face and whole body swell; and wheresoever you thrust your finger upon it, it will pit, and leave an impression. The colour of the Skin is pale and earthy, the flesh soft and loose, the water thin and white, breathing difficultly, and sometimes a lingering Fever.

PROGNOSTICK. As to the Prognostick: Every Dropsie is dangerous and hard to be cured, and the more hard, by how much the older, but *Anasarca* is least dangerous; but *Ascites* and *Tympany* are sometimes one more dangerous than another, according to their causes. So if *Ascites* comes from a Schirrus of the Liver, or Ulcer of some internal part, it is more dangerous than a *Tympany*: but if it come of drinking too much water, or new Obstructions, it is less dangerous.

A Dropsie is more easily cured in Servants than in Free-men, in Country-men than in Noble-men: for they will be better constrained to abstain from drink and the like, and be more patient than they who have liberty.

A Dropsie from the hardness of the Spleen is less dangerous, than from the hardness of the Liver, because the Spleen is not so noble a part.

A Dropsie coming upon an acute Disease, is evil; nor will it abate the Fever, but cause pain and death. *Hyp. 2. Prognost.*

They whose Liver being full of water, discharge it into the *Omentum* or Caul, their Belly is filled with water, and they die, *Hip. Aph. 35. Sect. 7.*

He who hath water between the skin or an *Anasarca*, if that water which is in the Veins flow into the Belly, the disease is cured, *Hip. Aph. 14. Sect. 6.* This *Aphorism* seems contrary to the former. But this contrariety is answered, by saying that *Hippocrates* in the former, by Belly understood the Cavity of the *Abdomen*; but in this, the belly it self; for if the water flow through the belly, the disease is at an end. Which Opinion is more clearly explained by *Hippocrates* in *Coacis*, in these words, In the beginning of a Dropsie, if there come a Flux of the Belly without want of Concoction or Crudity, it is prevented. You must mark that it is in the beginning; for if a Flux come upon an old Dropsie, it is not so safe, because commonly there is some fault in the Bowels by continuance, as a Schirrus or corruption of substance, which begets new matter, and death also. Hence *Hip. in Proorrh.* saith, That they who are to be cured of the Dropsie, must be *Eusplanchnous*, that is, those that have sound Bowels; free from the great diseases mentioned. Otherwise, if a flux of the belly happen with a Schirrus or corruption of the Liver, they die presently, as *Galen* shews, 2. ad *Glauc.* cap. 5. And *Avicenna* saith thus; Swiftness of breath, and flux of the belly, signifie death within three days.

Little Urine in Dropsies is evil; the less, the worse, because the drink runs into the belly, and not into the Reins. Hence *Hip. in Coac.* saith, Little and thick Urine, and a Dropsie that is Feaverish, is deadly. But if the quantity of Urine increase, we may hope well. Which is elegantly laid down by *Celsus*: And then (saith he) there is hope of Health, when they void more Urine than they drink: There is fore it is good every day to measure the Urine and the Drink, and the Belly with a string, especially in the Physick is given for whether it grow less or not; for if it increase notwithstanding the Medicines, it is desperate.

Impostumes or spots in the Legs of Hydropeical men, are deadly. *Hippocrates* confirms this 7. *Epid.* in his History of *Bion* and *Cresiphon*; the one whereof died presently after an Impostume which ran in his left Thigh: the other after he had a red and bluish gathering in his right Thigh.

Men that are cured by Medicines for Dropsies, if they fall again into the same are desperate, *Hip. in Coac.* For it signifieth that there is some incurable fault lurking in the Bowels, which after the water is emptied, reneweth it again.

If the Patient have sound Bowels and strength, eat his meat, and concoct well, and be not sick after, breath freely, have no pain, cough or thirst, and his Tongue grow not rough, so much as in his sleep; if Medicines presently purge him, and if without Medicines he be bound, and in a Natural order; and if his Urine change according to his Diet, or if he be not faint. If all these things be present, the Patient is recovered; if some of them, there is hopes of amendment; if none, he is desperate.

In a dry Dropsy, to piss by drops is evil, *Hip. in Coacis.*

A Tympany in a Melancholick Body is deadly, and Remedies are given in vain.

If in a *Leucophlegmatia*, a strong *Diarrhœa* follow, the disease is cured, *Hip. Aph. 29. Sect. 7.* but this *Diarrhœa* must be at the beginning, or at least before the disease be old, or the strength of the Party weakened; but if it happen when the Patient is weak, it is dangerous.

CURE. The Cure of the Dropsy consists in the Evacuation of the Matter, whether it be in the whole body, or in the *Abdomen* or Belly; in taking away the Cause that produced that Matter, and in strengthening of the Bowels, especially the Liver.

The chief and most ordinary Causes are, great Obstructions, and Schirrus or hard Tumors, the Cure of which diseases is to be taken out of their proper Chapters. But if they will not suffice, you must use these following; which are more proper in Dropsies, and vary them according to the variety of Causes, and the Bodys sick.

And first, you must purge by an usual opening Apozeme that expels Flegm and Water, made thus:

Take of the Roots of *Eringus*, *Madder*, *Smallage*, *Parsley* and *Elecampane*, of each one ounce; *Valerian*, *Asarabacca*, *Dwarf-Elder* and *Flowerdeluce* Roots, of each half an ounce; the Bark of the Root of *Capars*, and inward Bark of an *Ash* and *Tamarisk*, of each six drams; the Leaves of *Agrimony*, *Ceterach*, *Maidenhair*, *Germander*, *Sr. Johns-wort*, *Wormwood* and the lesser *Centaury*, of each one handful: *Soldanella* or wild *Mercury*, half a handful: the seeds of *Carrots*, *Parsley* and *Fennel*, of each half an ounce: scraped *Liquoris* and *Raisins stoned*, of each one ounce: clean *Senna* one ounce and an half: *Agarick* tied in a clout three drams: the seeds of *Dwarf-Elder* and *Jallap* Roots, of each one dram and an half: *Ginger* and *Cloves*, of each one dram: *Broom*, *Elder* and *Tamarisk*-flowers, of each one pugil. Boil them in equal parts of steeled water and White-wine added towards the end to a pint and a quarter. When it is strained, dissolve therein Syrup of *Succory* with *Rhubarb*, four ounces. Make a clear Apozeme Aromatized with three drams of *Cinnamon*, for four Mornings-draughts.

After Universal Purging, let the Patient take this following Powder once a Week;

Take of clean *Senna*, *Gummy Turbith*, *Hermoadacts*, *Dwarf-Elder*-seeds, *Jallap* and *Mechoacan*, of each one dram: Cream of *Tartar* two drams: *Cambugia* half a dram: the powder of *Diamber*, *Diarrhodon* *Abbatis* and *Fennel*-seeds, of each one scruple: *Sugar-candy* three drams. Make a powder of them all, of which infuse two drams; or two drams and an half all night of four ounces of White-wine. Let him take the Wine and the Powder in the morning.

The Syrup of *Ramnus solutivus*, or Black-thorn made of the Juyce of its Fruit, called *Rhem-Berries* with Sugar, given one ounce at a time doth wonderfully purge water. It must be taken presently before Dinner.

Or give the Magistral syrup made of the Decoction of the Apozeme afore-mentioned, the Dose of Purgers being increased. Or this following:

Take of the Juyce of *Damask Roses* two pints: the Juyce of the Roots of *Danewort*, *Flowerdeluce*, *Succory*-leaves and *Agrimony*, of each half a pint: the seeds of *Danewort*, *Mechoacan* Roots and of the best *Rhubarb*, of each two ounces: *Spicknard* three drams: yellow *Sanders* two drams: *Crystal of Tartar* one dram and an half. Infuse them a whole Night, and after a little boiling strain them: then put as much white Sugar as is of the Liquor. Boil it into a Syrup, and add to it of the Salt of *Wormwood* half an ounce. Let him take two drams with opening Broth once in a Week.

Or instead of this Syrup, or at other times when it is not taken, you may give these Pills which purge the evil Humors, and also open Obstructions.

Take of the best *Aloes* steeped in the Juyce of *Wormwood* half an ounce: *Gum Ammoniack* dissolved in *Vinegar* and strained, the best *Myrrh* and *Crocus Martis* prepared with *Sulphur*, of each three drams: Salt of *Wormwood* and *Tamarisk*, of each two drams: *Diagridium* and *Troches of Alhandat* of each one dram: *Saffron*, *Ginger* and *Sal-gem*, of each one scruple. With *Oxymel of Squils* make a Mass of Pills, of which give half a dram twice in a Week two hours before Dinner.

Also purging Wines are much commended for the Cure of the Dropſie, of which there are divers Forms. But theſe are beſt:

Take of the Roots of *Aſarabacca* and *Mechoacan*, of each two ounces: the French Flowerdeluce, and Bark of the Roots of *Danewort* and *Elder*, of each one ounce: *Elicampane*-roots half an ounce: dry *Wormwood* and *Dodder* of *Thyme*, of each one pugil: clean *Senna* one ounce: *Soldanella* or Sea-fool-foot two drams: the Troches of *Rhubarb* and *Agrimony*, of each one dram: *Mace* and *Cinnamon*, of each half a dram: *Scammony* four ſcruples: White-wine two pints and an half. Infuſe them three days in *Balneo Mariæ*; the Veſſel being well ſtopped, keep it with ſtraining. Let him take two or three ounces in the morning twice or thrice in a week.

Among Medicines for drawing forth of Water, the Juyce of French Flowerdeluce is very much commended, if it be drawn forth with White-wine, it may be given to three ounces; it provoketh Stool and Urine very powerfully. But becauſe it is very offenſive to the Mouth and Stomach with its ſharpenſs, it uſeth to be mixed with Manna or Honey. *Maſſaria* gives it thus:

The of Juyce of Flowerdeluce newly drawn with White-wine, three ounces: the beſt Manna one ounce and an half. Mix them for a Potion.

Platerus in his Observations; I gave (ſaith he) to one in a Dropſie, of the Juyce of Flowerdeluce to drink with Hony, two ounces, and he often piſſed and purged, and after he had taken it twice or thrice, his Belly ceaſed ſwelling, and his Feet and he was cured.

Rhubarb is commended of ſome, becauſe it purgeth noxious humors, and ſtrengtheneth the Liver. And *Stacherus* ſaith, that he cured many with the uſe of *Rhubarb* given every third or fourth day, one or two drams in an opening Decoction. Alſo in *Scoltzius* his Epistles, there is a famous Story of one who was cured of a Dropſie only by the uſe of *Rhubarb*, which he took every day in ſuch a quantity as was neceſſary to purge.

The Troches of *Rhubarb* are much commended by all Authors. And *Matthews de Gradi* reports, That a certain Duke of *Orleans* was cured with them alone, taking two drams twice in a Week.

Michael Paſchalus ſaith, That he cured a Dropſie with the ſame, making them into Pills, by reaſon of their bitterneſs.

The Chymiſts commend the Extract of black Hellebore, *Aquila Cæleſtis*, and *Mercurius vita*, and they mix them with other vulgar Medicines, from whence followeth a plentiful Evacuation of Water. But they had need of ſtrong bodies who takes them.

Mercurius Dulcis works moſt gently, and *Mercurius Diaphoreticus*. But *Antimonium Diaphoreticum* cures without maniſeſt Evacuation, if it be calcined with Salt-peter till it be white: but the Diaphoretick, or Sweating Medicine made of the Butter of *Antimony*, cures all kinds of Dropſies beſt.

But you muſt obſerve in the giving of all ſorts of Purges, that they, eſpecially if ſtrong, are not to be given often, as *Galen* teacheth, *Lib. 9. Cata Topous*, becauſe they weaken the body, and then there will more water be bred afterwards. Therefore you muſt preſcribe ſtrengtheners and openers oftner than Purgers. And Experience teacheth us, That the Evacuation by Urine in this Diſeaſe hath better ſucceſs than that by Stool.

Inſtead of Purgers, you may give Clyſters which diſcuſs Wind, purge Water, and take down the Belly, made thus:

Take of *Mallows*, *Mercury* and red *Coleworts*, of each one handful; *Soldanella* or wild *Mercury*, half a handful: *Annis*, *Ciraway* and *Dill*-ſeeds, of each three drams; *Camomel*, *Melilot*, French *Lavender* and *Broom*-flowers, of each one pugil. Boyl them to a pint: In the ſtraining diſſolve of *Diacatholicon* one ounce: *Hiera Picra* half an ounce; Oyl of *Dill* and *Lillies*, and of common Honey, of each two ounces Make a Clyſter twice in a Week. Or,

Take of very ſour Leaven half an ounce; common Salt one pugil. Boyl them in as much Water as is ſufficient: ſtrain it, and add to it the Urine of a Child four ounces: Oyl of *Rue* three ounces: clarified Honey one ounce. Make a Clyſter. This *Valeriola* commends highly.

This following Clyſter brings forth Water in abundance:

Take of *Coloquintida* one dram, infuſe it for a night in three ounces of White-wine; when it is ſtrained add thereto Tripe-broth one pint; common Oyl two ounces; Salt-peter melted one ounce; Strong Vinegar one ſpoonful. Make a Clyſter. Or,

Take of the Pulp of *Coloquintida* one dram; clean Bran one handful; boyl them in White-wine for a Clyſter. Or,

Take of *Carthamus*-ſeeds one ounce: the beſt *Agarick* half an ounce; the Pulp of *Coloquintida* three drams; Centaury the leſs, *Germander* and both the *Wormwoods*, of each half a handful. Boyl them to a pint; In the ſtraining diſſolve of Oyl of *Camomel*, *Rue* and *Capars*, of each one ounce; Honey of *Raſes* two ounces. Make a Clyſter. Or,

Take of the Emollient Decoction one pint; thick vomiting Wine, the Infuſion of *Crocus metallorum* four ounces; *Diaphanicon* one ounce. Make a Clyſter.

Blood-letting here is for good reason omitted, except the Disease come from stoppage of the Terms or Hemorrhoids. And then you must not bleed except it be in the beginning of the Disease before the Liver be grown too cold.

Issues, Blisters, and Scarrifications use to cause Gangrenes, or Mortifications in a Dropsie, because the heat of the part being small, is quickly extinguished: Therefore it is better wholly to abstain from these kind of Remedies, although sometimes they have done some people good.

Paracentesis, or cutting of the Skin is seldom to be used, because few are cured thereby, especially because the Patients, or their Kindred will not yield to it before the Disease is confirmed, and the Bowels are so putrified that there is no hope. Therefore for the most part they die the second or third day after they are cut. The wiser sort will have the Incision made in the beginning or increase of the Disease, before the Bowels are corrupted. Neither is it necessary at that time, because the Disease being small may more safely be cured with other Medicines.

Among emptying Medicines, Sweatings are accounted most profitable, which as they are always good in Anasarca, so in a Tympany or Ascites, they sometimes hurt, namely, when driness of the Liver (which is usual) causeth the Disease. Moreover, it is commonly impossible to make men in Dropsies sweat. But if the Liver be not dry, Sweats are good in all kinds of Dropsies, especially when they decline, to discuss the reliques of the watry humor by the habit of the body. So *Valeriola* reports, That he cured an Ascites with a Decoction of Guajacum given forty days together. It is good to make the Decoction with steeled Water and Wine. The Chymists commend Antimonium Diaphoreticum.

Martinus Rulandus makes a Sudorifick of Juniper-berries, which because they are forceable to provoke Urin, may do good both ways. It is thus made:

Take of Juniper-berries bruised three handfuls: Sack as much as is sufficient; boyl them to halfs, and give two ounces every morning, covering warm after it.

Horatius Reserus in *Scholtzius*, boasteth that he hath cured many Boys, and some Women of the Anasarca, with Syrup of *S. Ambrose*, which is a Sudorifick. Its description is in an old Dispensatory called *Luminare majus*, thus:

Take of Gromwel-seeds husked two ounces: Spring-water half a pint; boyl them till three or four ounces of water only remain; which being strained, mix with as much Sack, and give it warm: it will sweat him plentifully if he be covered warm.

But those Medicines are best which purge by Urin, and the Cure is commonly better this way.

One of the chief is two Ounces of the Juyce of Chervil given every Morning in Wine for many days.

Opening Wines that purge by Urin are good in this case; as this:

Take of Elicampane, Smalage, Fennel, and Flowerdeluce-roots dried, of each one ounce and an half: Roots of Valerian, Gentian, Asarabacca, and Squills or Sea-Onions, of each one dram: the middle Bark of an Elder, and Saxaphras, of each six drams: dried Wormwood, Agrimony, German-der and Maiden-hair, of each two drams: the tops of Centaury the less, and Broom-flowers, of each one dram: Parsley, Annis, and Dill seeds, of each one dram and an half: Cinnamon two drams: Spicknard half a dram; bruise them together, and infuse them in White-wine for a few days, and let him drink thereof every Morning.

The steeled Compound. Wine prescribed in the obstruction of the Liver, is good for the same.

The Decoction of Juniper mentioned is to be reckoned among the Diureticks. And if you fear it is too hot, you may make it in Water, and put a little Spirit of Vitriol to it.

Fonseca commends the use of Turpentine washed with Barley-water, and he gives half an ounce thereof twice in a Week.

And lastly, The Spirit of Salt, Tartar, and Vitriol, given in a true quantity with an Apozeme, or other opening Decoction for some days, do wonders; because they being very thin, do run into all the parts of the body, and open them.

The Salts of Wormwood, Juniper, Bean-stalks, and the like, given in White-wine, do the same. Or in want of Salts you may make a Lee of the Ashes of the same, which will be sufficient.

Matthiolus upon the 87. Chap. lib. 1. of *Dioscorides* saith, That a Lee made of Juniper-Ashes with White-wine, and four or five ounces thereof taken, doth powerfully provoke Urin, so that I have seen some men cured of a Dropsie with it alone.

Moreover, In the whole time of the Cure, you must use Strengtheners to the Liver; for it is in vain to purge water, if you do not hinder the increase of it, which you cannot do except you refresh the Liver, and bring it to its former temper.

Among the chief Strengtheners is Cinnamon-water, of which you may give one Spoonful every Morning, and before Supper.

But *Galen* in his Eighth Book *Kata Topous* commends the Electuary called *Cyphoides* by the *Arabians*, from the Wine whereof it is made, of which you may give half an ounce in the morning; according to *Hollerius* it is thus made:

Take of *Curran*s cleansed half a pound: boyl them in old Sack to the consistence of the *Pultis*, strain them after they are pounded, and then add of the Conserve of *Rosemary*-flowers, *Citron*-bark candied, and *Cinnamon*, of each one dram: the Powder of *Aromaticum Rosatum*, *Diamargariton Calidum*, and *Diacinamon*, of each two scruples: *Lignum Aloes* half a dram: *Saffron* half a scruple. Mix them for a soft Electuary.

The Opiates prescribed for the obstruction of the Liver are here very profitable.

The Conserve of Sea-wormwood is very good, made of one part of the leaves, and three of Sugar, with which *Matthiolus* in his Chapter of Wormwood saith, some have been cured.

Poterius makes an Opiate of Conserve of *Roses*, *Specificum Stomachicum*, and *Crocus Martis*, and Oyl of *Vitriol*, by which only Medicine he saith, he hath cured *Dropsies*. The *Specificum Stomachicum* is *Antimony* fixed.

The cure of men in *Dropsies* lieth much in their drink, therefore there must be care of that, that he drink sparingly, and indure thirst as much as may be; for it is known that many have been cured only with abstaining from drink, and eating of dry meats, without other means. For drink, let him take *Elicampane* or *Wormwood*, *Juniper* or steeled Wine, or let him use the aforelaid steel Medicines. *Avicen* forbids men in a *Dropsie* to see waters. But if you fear too much heat or driness, or if the Patient be abstemious, he may use the Decoction of *Juniper*, of *Guajacum* or *Saxaphras*, or of *Madder*, which provokes Urin very much, either alone, or with White-wine. But because he must abstain from drink (as we said) and yet there is great thirst, it must be asswaged by Fits with washing the Mouth with Steeled Water and Vinegar, or with often chewing Mastick, or the like; for it will draw Water to the Mouth, not only (as some think) out of the Head alone, but from the Stomach and Cavity of the Abdomen, and therefore it will do much.

Of Meats we say thus, That he must chuse the driest, and avoid Sweet meats as the Plague.

While you use Internals, forget not Externals, for they are of great force to discuss the humor of the Belly; as Fomentations, Bags, Oyntments, Pultisses and Plaisters. The chief are made thus:

Take of *Marsh-mallow* and *Lilly Roots*, *Cypress-barks*, *Caper-barks*, middle Barks of *Ash*, *Tamarisk*, *Dwarf-Elder*, and the greater *Snakeweed*, of each three ounces: *Wormwood*, *Agrimony*, *Marjerom*, *Organy*, *Calamints*, *Peniroyal*, *Rue*, *Ground-Pine*, *Southernwood* and *Elder*, of each one handful: *Parsley*, *Dill* and *Cummin-seeds*, of each one ounce: *Camomel*, *Melilot* and *Broom-flowers*, of each three Pugils: *Spicknard*, *Schoenanth*, *Nutmegs*, *Cloves* and *Cinnamon*, of each half an ounce: *Salt* and *Allum*, of each half a pound. Boyl them all in a Lee made of *Oak Ashes* or *Branches*: with this foment the whole Belly with *Sponges* dipt therein and strained. Or,

Take the Urin of a sound Boy, four pints: *Lapis Prunella* three ounces: boyl them to the consuming of the third part of a Fomentation.

Aquapendens commends Lime-water, in which he dips a new Sponge which will compass the whole Abdomen: this he strains, and binds on, by which he affirmeth, that the waters that cause the *Dropsie* are consumed, the cold and moist distemper of the Bowels are taken away, and the hardness of the Spleen dissolved.

Clandinus quencheth the Lime in a Salt Bath Water, that is either of *Brimstone* or *Salt-peter*, and bindeth close the *Sponges* dipped therein and strained, with *Rowlers* to the Belly, and keeps them there long, and then changeth them.

You may make Bags of the Ingredients of the former Fomentation boiled in White-wine, and applied warm to the Belly.

After the Fomentation, let the Belly be anointed with Oyl of *Dill*, *Rue* or *Flow erdeluce*, mixed with Powder of *Ammoniacum*, *Galangal*, *Dill*, *Bay-berries*, and the like.

It is also good to anoint with the Oyl of *Scorpions*, according to *Matthiolus*, and with a little oyl of *Rosemary*.

Many do make Oyntments and Liniments of strong Purgers, which draw Water violently from the *Dropsie*, and asswage the swelling of the Belly, but they are dangerous; for the purging Quality getting between the Muscles and the Membranes, doth often stir up a deadly Looseness.

After Liniments, or if they be omitted, you may apply Cataplasms or Emplaisters. This following is the best.

Take of the Roots of wild Cucumers well bruised and steeped twenty four hours in Vinegar of Squills one pound: clarified Honey two pints. Mix them, and boyl them to the consistence of a Cerat, and add in the end four ounces of the Powder of Cummin-seed. Make an Emplaister for the Belly to be renewed every day. Or,

Take

Take of dried Cow-dung one pound: Brimstone and Cummin-seeds powdered, of each two drams: New wine boyled called Sapa: or of the Urin of a Boy, as much as will make a Cataplasm.

A Cataplasm of Rhadishes bruised and laid to the Navil and Reins, doth provoke Stools and Urin.

Galen commends a Cataplasm of Snails bruised with their Shells, which must be kept to the Belly till it fall off of its own accord; it draws water forth violently.

Valeriola makes it in form of a Plaister thus:

Take of Cow-dung one pound: Goat-dung half a pound: boyl them in strong Vinegar, and beat them in a Mortar with three ounces of Brimstone, and one ounce of Allum: the Juyce of Spurge and Dwarf-Elder newly drawn, of each three ounces: Lupine and Orobus-meal, of each two ounces: the Powder of Soldanella, Annis, Fennel and Cummin, of each two drams: common parched Salt three drams: Turpentine four ounces: Pitch six ounces. Make a Plaister.

It is worth the observation which Wierus and Varignana say they found by experience, that a Toad found in the Woods, cut through the Belly and tyed to the Reins, doth provoke Urin violently, and when you will evacuate more apply another.

Petrus also reports, That the Powder of the same Toad dried and calcined in an Oven, drunk half a dram in Wine or other Liquor, doth wonderfully expel the Dropsie by Urin.

The first Inventor of which Experience desiring thereby to destroy himself, was cured thereby contrary to expectation.

Also this following Cerat made of a Toad is excellent.

Take of Toads two pound: the Juyce of Dwarf-Elder three pints: Oyl one pint: Wax half a pound. Boyl them in a luted Pot to the consumption of half, strain them for a Cerat; spread this upon a Leather, and lay it to the Spleen, it evacuateth all waters.

All the time of the Cure you must strengthen the Liver and Stomach, if the humor doth begin to abate, or is not so great that it hinders the Vertue of outward Medicines from coming to the part.

Take of the Oyl of Orange-flowers one ounce: the Oyl of Spike three drams: the Oyntment of Roses, the Stomach Cerat of Galen, of each two drams: distilled Oyl of Mastick two scruples: the distilled Oyl of Wormwood one scruple: Oyl of Nutmegs one dram and an half: white Wax a little: mix them for a Liniment to be applied to the Stomach.

Take of Sea-Wormwood three drams: Horehound and Rosemary, of each two drams; red Roses two Pugils; Camomel-flowers and Bay-leaves, of each half a handful; Orange-peels and Sweet-wood Aloes, of each three drams; Cypress roots, Schoenanth, and Spicknard, of each half an ounce; with two parts of the best Wine, and one part of Wormwood and Agrimony-water, make a Decoction, with which foment the Region of the Liver with a sponge first wash'd in Wormwood-water.

Take of the Oyntment of Roses and Cerat of Saunders, of each three ounces; red Roses, Endive and Sorrel-seed, of each one dram; Spicknard, Schoenanth, dried Wormwood, and Styrax Calamita, of each three scruples; Oyl of Mastick or Wormwood, as much as will suffice to make a Liniment to be applied to the same part after the Fomentation.

For the most part in a Dropsie the Thighs, Legs and Feet have a cold swelling, and for the discussing of it a Lye is good in which the Roots of Dwarf-Elder and Elicampane, Rosemary-leaves, Marjerom, Thyme, Bays, Organy, Salt and Allum have been boyled.

Although the things aforefaid are chiefly used, yet sometimes they are not necessary, namely, when the Dropsie comes in a hot and dry Constitution from hot Causes which disperse the Natural heat, as in vehement Cholerick Feavers, for then cold things for the Liver mixed with warm Openers are best, such as are used in continual Feavers: And the Magistral Syrup above-mentioned made of the Juyce of Roses, Succory and Agrimony.

For ordinary drink give a Decoction of Succory Roots and Calcitrapa or white Chamelion, which is not unpleasant; or of other Openers, but in a greater quantity than above, which may quench thirst, assuage the heat of the Liver, and moisten the drinels thereof, it is not amiss to confirm this Doctrine by a famous Example (although it be allowed by Avicen, Trallian, and others) because it seems strange to some, and is of great consequence: Baptista Montanus reports, Conf. 263. in these words; I saw (saith he) in Venice a certain Predicant Frier that was cured of an Ascites and Tympanites; there were with me many famous Physicians, namely, Papiensis, Eugubinus, Trancavella, and others: He had (as I said) an Ascites with a Tympany, and a Consumption with a Hectick Feaver; therefore we were bound both to dry and moisten; therefore we were in a great contention, I was willing that he should drink much, but things that open, because he had many Obstructions

structions, and that moisten because he had a Consumption : I prescribed the Syrup of Vinegar with all things that provoke Urine. Eugubinus would not allow him to drink, and told a story of one who was cured by dry things. Papiensis to end the controversie, said, that he should neither drink much, nor at all; we argued till Night : the Noblemen brought their Physicians to their Boats, and there Papiensis said to a Nobleman, what he had concealed formerly, If you would have this man cured, there is nothing to be done but what Baptista Montanus saith.

In this case also Medicines of Steel, Tartar and Vitriol are excellent, because they strongly open and provoke Urine without any great heat.

But the tart Vitriol Mineral waters are best, because they powerfully open the bowels, provoke Urine, and correct the distemper of the Bowels, whence experience sheweth us that many Dropsies are every year cured at the Spaw.

Avicen reports in the Chapter of the Cure of the *Ascites*, Of a Woman which had a great Dropsy, and eat an incredible number of Pomegranates, whereby she was cured.

And *Varignana* reports out of *Platearius*, That an old Woman boyled the Juice of Plantane to the consumption of half, and gave it to one that had a Dropsie from a hot Cause every day, and so cured him.

By these Examples it is plain, That sometimes a Dropsie is cured with cold things; and to these we may add the Testimony of *Christopher Vaga*, lib. 3. Art. Med. Sect. 8. Cap. 12. who saith there, We saw one that had a Tympany from the hot distemper of the Liver, whom we cured with cold things, laying upon the Liver the Juycce of Endive and Succory, with a little Vinegar, and giving Endive and Succory to be eaten.

The End of the Eleventh Book.

THE

THE
TWELFTH BOOK
OF THE
PRACTICE
OF
PHYSICK.

Of the Diseases of the Spleen.

The Preface.

Although the Spleen may be afflicted with all kinds of Diseases, both Similary, Organick and Common; yet we will onely speak of those which are most ordinary in Practice, and we will contain them in six Chapters. The first shall be of the Inflammation of the Spleen. The second of the Pain. The third of the Obstruction and Tumor, or puffing up of the Spleen. The fourth of the Schirrus, or hard Tumor. The fifth of Hypochondriack Melancholy. The sixth of the Scurvy.

CHAP. I.

Of the Inflammation of the Spleen.

The Inflammation of the Spleen is of the same Nature with that of the Liver, only it differs in this, That it seldom comes from pure, but from Melancholick blood, It hath the same causes, both Conjunct and Antecedent: but the *Diagnosis*, or knowledge by Signs is different.

SIGNS The Signs of the Spleen inflamed, are swelling and pain in the left side under the Ribs, which sometimes reach to the Midriff and the left shoulder; also heaviness and beating in the same side, a constant Fever, loathing of Meat, Thirst, blackness of the Tongue, troublesome lying on the right side by reason of the heaviness of the part lying upon the Stomach then; sometimes troublesome lying upon the left, if the Tumor be great, for then it is pressed both by the stomach and the Liver; sometimes the Tumor is in the shape of the Spleen, sometimes it fills the whole left Hypochondria, sometimes it appears below the Navel, when the matter is increased, and when the Inflammation reacheth to the parts adjacent, and especially to the Navel.

These Signs are greater or lesser, according to the divers mixtures of Humors. For if Choler be mixed with Melancholick blood, the Urine is more red, the Mouth bitter, the Thirst greater, the Fever stronger and worse every third day; great Watchings, and sometimes doting; if it be mixed with

with Flegm, the colour is pale, the Feaver and Thirst is less, and the pain less. But if the blood be only melancholick, the hardness is greater, the colour is black, and sometimes the Urin, and there are other signs of melancholy predominating.

PROGNOSTICK. The Prognostick is almost the same with that of the Liver inflamed, but less dangerous, because the Liver is the nobler part. If it kill not the Party, either it ends in a Crisis, or it is dissolved or suppurated, or grows hard and turns into a Schirrhus. A good Crisis is when the left Nostril bleeds, or when there is a purging by Stool or Urin.

CURE. The Cure of this Disease, is the same with that of the Liver, only observe these Differences.

First, You must open the Vein of the left Arm in this, and not so often as in the Inflammation of the Liver, because the Liver being the Fountain of blood, wants greater Evacuation. That which is reported of the Salvatella-vein to discharge the Spleen so properly, is but a conceit, and is now out of use: you may better take blood out of the Liver-vein called Basilica.

Secondly, You must apply those Topicks, or outward Medicines now to the left side.

Thirdly, You must not take such care in the use of binding Medicines outwardly, because the Spleen is not so noble a part, and needs less strengthening.

Other things are to be taken out of the Cure of the Inflammation of the Liver.

CHAP. II.

Of the Pain of the Spleen.

Sometimes the Spleen is pained without Feavers or hardness, and this comes from Wind which doth not only stretch the substance of the Spleen, which is almost insensible, but the Membranes that cover it.

It is easily distinguished from the Inflammation by the Feaver, and hardness being absent, but hardly from the Cholick, because the Colon is just under and over the Spleen; yet the pain of the Spleen is weighty, and in one place: but the pain of the Colon is stretching, sharp, and moveable, and runs about the whole Belly.

The Cure of this Disease is with Clysters that are Carminative, or that expel Wind with convenient purging, and with Emollient and Discussing Fomentations mixed with Vinegar. As also with Liniments made of oyl of Lillies, Camomel, Capers, and Wormwood, with a little Spike and Vinegar.

If the pain remain after the use of these, apply a Cupping-glass to the left Hypochondrion, if there be no suspicion of the Inflammation or Defluxion.

Chap. 3. *Of the Obstruction, Tumor, or Puffing up of the Spleen.*

THE Spleen is no less subject to obstructions than the Liver, but more, because it receiveth the thicker and fouler blood, which is more easily contained in its Veins, or insensible passages, by reason of the softness and looseness of the part, which is more fit to receive thick humors. And when thick humors stick in the substance of the Spleen, it makes a Tumor, and an Inflammation in the part. And if the humor by long continuance grow thick and hard, it breeds a Schirrhus; but as long as it is moist with Flegm, it is like Oedema or flegmatick Tumor, which is most usual with them who live in Marshy moist places, or who live upon cold Diet. But if this Tumor be soft and loose, it is called simply an Inflammation or Puffing up, the cause whereof is partly Flegm, and partly Wind: They are commonly called Splenatick People who are thus afflicted.

CAUSES. The Causes of the obstruction of the Spleen are the same with them of the Liver, and this or that part is affected, as it is more or less disposed to receive them. Sometimes both Liver and Spleen are affected together; for a gross humor can hardly be in one part, but some of it must be carried to the other.

DIAGNOSTICK. The obstruction of the Spleen is distinguished from the obstruction of the Liver, from the Situation of the part; for there is a heaviness in the left Hypochondrion, and sometimes pain, especially after running or great walking or riding; and when you handle the Hypochondrion, there is a stretching and resistance; besides, the Face is blewish, and there are other signs of Melancholy.

This

This disease is stubborn and of long continuance, by reason of the softness and looseness of the part, which cannot therefore easily discharge the humor; and if it last long and be not cured speedily it turns into a Schirrus.

CURE.

The Cure is the same with that of the Obstruction of the Liver, by adding some things which do more properly respect the Spleen, and are fitter to prepare and purge Melancholy.

The Pills of *Ammoniacum* which follow, are to be added as most excellent, and to be used often.

Take of the best *Ammoniacum* dissolved in Vinegar of Squills one ounce; the Extract of Aloes half an ounce, Crystal of Tartar one dram, Myrrh and Saffron, of each half a dram: Mastich, Benjamin, salt of Ash and Wormwood, of each one scruple; with Oxymel of Squills make a mass of Pills. The Dose is half a dram twice in a week, with purging between.

In Apozemes and other opening drinks, Oxymel simple, and of Squills, or Sea Onions may be very well dissolved, to cut and dissolve powerfully the gross and earthy humors.

Of all other Medicines those which are made of Steel are the best to open the Obstructions of the Spleen.

Also you may give Steeled or Ironed waters for ordinary drink, which are known to lessen the Spleen (as *Celsus* saith) by this, because Beasts that are brought up at Smiths houses have little Splens.

To the Fomentation put Vinegar instead of White wine, which will make them pierce better, which is requisite in a gross humor.

Moreover, *Galen* commends Vinegar exceedingly in the diseases of the Spleen, used both inwardly and outwardly.

Put Hemlock to the Cataplasms, as being powerful to soften and discuss humors.

There is an excellent Cataplasm made of Green Tobacco, boyled in Oyl and White-wine.

Of which also boyled to the Consumption of the Wine, you may make a rare Liniment.

Amatus Lusitanus, curat. 6. cent. 5. mentioneth a Cure of an Obstruction of the Spleen remaining after a Quartane Ague, That it was taken away with a decoction of China used twenty days after convenient Purging.

CHAP. IV.

Of the Schirrus or hard swelling of the Spleen.

THE matter of the Spleen causing obstruction by continuance grows thicker, and makes a Schirrus: And since the Schirrus of the Liver and Spleen are both of one Nature, whatsoever we have said of the Schirrus of the Liver, may be here also useful.

DIAGNOSTICK. The Knowledge also of the Schirrus of the Spleen is the same with that of the Liver, but only the hardness is on the contrary side.

It is distinguished from a windy Tumor, because there is more heaviness in a Schirrus than in a windy Tumor, which yieldeth to the Finger, and maketh a Noise; all which are not in a Schirrus.

If it come only of Melancholy, there will be evident signs thereof; but if it be mixed with flegm, there is apparent in the whole body a Flegmatick evil habit.

PROGNOSTICK. The Prognostick also is the same with that of the Liver; only this of the Spleen is more easily cured; because the less Noble the part is, the stronger Medicines may be applied without danger.

CURE. And Lastly, The Cure is the same with that mentioned in the Schirrus of the Liver,

And because it is to be done by degrees, from mild to stronger Medicines: first you must use those Remedies which we said were good for the Obstruction of the Liver and Spleen: and among the Chalybeat Medicines there commended, the principal of the Pills of Steel made with *Ammoniacum*, and other things mentioned in the Obstruction of the Liver.

Pills of Aloes, *Ammoniacum* and *Mercurius dulcis* are the best among the Medicines for the Schirrus of the Liver.

But this following Opiate is the Medicine will Cure, if it be not incurable:

Take of Gum Ammoniack: Opopanax and Bdellium, of each two drams: dissolve them in White-wine; strain and boyl them, then add of Confectio Hamech and Diaphanicon, of each two drams & double

double *Catholicon* half an ounce; *Pilulæ Foetidæ* two drams: make an Opiate, of which let him take half an ounce with twenty grains of *Mercurius dulcis* for many days together, and so the Tumor and hardness will vanish.

And besides what was said concerning the Liver, you must observe these following Precepts in this disease.

First, Because Blood-letting is much questioned, we resolve that it may be good in the beginning. But it is good for nothing when the disease is old.

Secondly, The dead or blind Nettle called *Galiopsis*, or *Pliny's Arch-Angel*, is commended by *Solenander* and *Fonseca*, for a special Remedy; the *Italian* call it the Spleens Herb: this is given boyled in Wine, the quantity of an ounce, or one dram in Powder, with Wine or other convenient Liquor or Decoction, with most admirable success.

Thirdly, Besides the Fomentations there mentioned, *Aquapendens* in his Chirurgery commends the fomentation of the Belly, with a Sponge dipped in Time water, and squeezed; and with that he saith he hath cured the Schirrus of the Spleen and Dropsie.

Fourthly, Besides the Oyntments afore-mentioned, *Amatus Lusitanus* commends this following as admirable, by which he saith he cured a Schirrus of the Spleen; and he saith that he had it from the Physicians of *Ferrara*.

Take of Common Oyl three pints; the Marrow of an Ox bone one pound; fresh Butter half a pound; the Juices of Briony and Sowbread, of each one pint: boyl them gently till the juices are almost consumed. Add to the straining yellow Wax eight ounces; the Powder of Ceterach or Spleenwort, Capar Barks, Tamarisk and *Agnus Castus* seeds, of each three drams. Mix them into an Oyntment.

Thus it is described by *Amatus*; but there is too much for one Patient, therefore you may lessen it thus:

Take of Common Oyl three ounces, Ox Marrow one ounce, fresh Butter half an ounce, the Juice of the Root of Briony and wild Cucumers, of each one ounce and an half: boyl them as afore, and add one ounce of Wax, and of the powder of Ceterach, Capar and Tamarisk Barks, and *Agnus Castus* seeds, of each two drams.

Fifthly, The Cataplasms following are excellent:

Take of the Roots of wild Cucumers one pound: Mallows and Violets, of each three handfuls: boyl them till they are soft, beat them and strain them: then add of the Oyl of Capars and Tamarisk, Vinegar of Squills a little. Make a Cataplasme.

Take of sower Leaven two pound; boyl it in equal parts of Oyl and Wine to a Pultis.

Besides the Plaisters mentioned in the Schirrus of the Liver, these are very good:

Take of Gum Ammoniac four ounces: dissolve them in strong Vinegar: then strain them, and boyl them till the Vinegar be consumed: then with a little Wax make a Plaister.

Take of Hemlock four handfuls, Ammoniacum half a pound; infuse them in Vinegar eight days: then boyl them till the Ammoniacum be dissolved: then strain them through a Linen clout, and boyl the Liquor again a little while, and with Wax and Oyl of Almonds make a Plaster.

Take of the juice of Mallows, Cressonis, the Stalks and Roots of Fern, of each two ounces; Gum Ammoniac four ounces: with a little Vinegar first dissolve them with a gentle fire, then boyl them and strain them: then boyl them again to the consistence of a syrup, and with one ounce of Oyl of Capars and a little Wax, make a Sparadrap for the Spleen, to be renewed every third day.

Aquapendens in the place cited, saith, That he cured many with this Plaister, which is made of two parts of Ammoniacum dissolved in Vinegar, and one of the juice of Tobacco; one of the Rozin of the Pine-Tree, Turpentine and juice of Danewort; one of Oyl of Capars, and a little new Wax in the form of a Cerat.

CHAP. V. Of Hypochondriack Melancholy.

Although all the parts beneath the Ribs called *Hypochondria*, are affected in this disease, yet it's thought the Spleen is most, because it receives the Melancholy, and therefore it is fitly placed among the diseases of the Spleen.

CAUSES, This disease comes of preternatural Melancholy and other adust humors, especially Bloud or Chofer, or Natural Melancholy.

This

This Melancholick Humor is not pure by its self, but commonly mixed with others, as Choler, Flegm, and Water, from whence come the diverlity of symptoms, which hereafter shall be mentioned. These humors breed in the Spleen, especially when it is distempered with heat, and also in the Liver. Hence it is that they draw meat and drink to themselves, which is not concocted, that which is thin of the Chyle sooner than that which is thick: and then the thicker part for want of something to carry it, stays in the Meseraick Veins, and the longer it stays, the thicker it grows, and sometimes is burnt: and afterwards coming to those parts, it is not well concocted. Moreover, those parts in their Natural state should concoct by boiling, now do it by roasting: Hence comes this great adustion of humors.

It may also be, that this Disease may be bred without the distemper of these parts, from evil Nourishment that breed Melancholy blood; and also from good blood retained too long in the Vessels, and being too much, as in stoppage of the Terms and Hemorrhoids, which continuing long in the Vessels is burnt, and turned into melancholy.

It may also come from the Stomach not well concocting, but turning it into a parched Crudity, from which those evil Juices are bred in the Liver and the Spleen. And *Galen 3. de loc. affect. cap. 7.* following *Diocles*, thought the proper seat of it was in the Stomach, because in this Disease there are commonly signs of an ill Stomach: But it is more probable that the Stomach should be afflicted secundarily from the Liver or the Spleen, as we will clearly shew hereafter.

These evil humors are gathered into the Veins and Arteries, which are in the bottom of the Stomach, especially in the great branches of the Gate-vein, the Spleen-veins, and those of the Mesentery, Caul and Belly, in which they have often great and grievous fermentations or workings; from whence stinking Vapors are sent to the Brain, Heart and Midriff, which cause those divers Symptoms in those parts, which we shall after mention.

Also the humors are contained in the Bowels, especially in the Spleen and Sweet-bread, and the Glandules of the Mesentery, the substance of which parts is soft, and like a Sponge, and therefore is more ready to receive them, and harder to cast them forth. Besides, the Glandules which are dispersed through the Mesentery, to be a prop to the Veins and Arteries, and to hinder lest they should be pressed by the Guts being full, or by any other thing; If these swell much, they do press upon the Vessels, and hinder the passage of the humors, whence come obstructions in those passages.

Boys and young men are little subject to this Disease, by reason of their moist temper unfit to breed Melancholy: but men often, because the humors are burnt by heat in youth; and when that heat decays, and the thin parts are exhaled, there is a great increase of Melancholy.

The Antecedent and principal Causes of this Disease are, first, Meats of evil Juice, and hard of Concoction, which are fit to breed Melancholy; as brown Bread, or unleavened or crusty, Pulse, Cheese, hard Eggs, and fried Meats, Water, Fowl, Beef, Venison, Hares, and all salt and smoked Meats, and many other things of hard substance.

Secondly, Great passions of long continuance, especially Sadness, are very powerful to breed this Disease, because they disperse the Spirits, by which means the Concoction is weakned, and so there is great Crudity, which being burnt by the hot bowels, turn into Melancholy.

Thirdly, Idleness, by which the Excrements are retained, especially if there be much study and watching: Hence it is that Learned men, and such as sit much, are very subject to this Disease.

Lastly, The stoppage of the Terms and Hemorrhoids, both in respect of their quality and quantity produce it: For when Melancholick, salt and burnt humors, used to be discharged by those ways, if they are stopped they return to the Hypochondria and cause this Disease.

DIAGNOSTICK. The knowledge of this Disease is taken from the Symptoms which follow, and they are many, because almost all parts of the body suffer thereby when it is high: We shall reckon them up, admonishing first, that all do not happen to all Patients, but some to one, some to another, according to the diversity of the humor, and the part affected.

First therefore, the Stomach commonly suffers, not principally, as *Galen* from *Diocles* supposed; but secundarily: When blood coming from the branches of the Gate-vein, to nourish the Stomach is not good; from whence the Stomach being ill nourished, doth ill concoct, and turns its Meat into corruption. Hence comes a Circular Evil, when the Liver and Spleen send evil blood to the Stomach, and the Stomach breeds evil Chyle to return to them, of which they make bad blood.

Therefore in this Disease the Stomach commonly concocteth ill, and turns the chief part sometimes into water, sometimes into sharp, sour and clammy substance; which being not drawn by the Guts and Meseraick Veins, because unfit for nourishment, stays in the Stomach; and coming upwards sometimes fills the Tongue with Spittle, so that the Patients spit much, and sometimes vomit.

Sometimes the matter in the Stomach boileth, and fermenteth: from whence comes wind, which doth not only stretch the Stomach, but the parts adjacent, and make the Heart so sick, that sometimes

the Patient swooneth. Sometimes the Wind is sent out upwards and downwards, and by insensible transpiration, or the matter causing them is vomited forth.

Yet you must observe that all that is vomited out is not bred in the Stomach, but is sent from the Spleen and other parts to it: for sometimes the humors vomited are so sharp that they set the teeth on edge, and these are sent by the short Vessel from the Spleen to the Stomach.

In some there is blood so sent, with Melancholy and other evil Humors, which is cast forth partly upward, and partly downward; as we shewed at large in the vomiting of blood.

In this Disease there is often belching and noise beneath the Ribs, by reason of the abundance of Wind made of those Crude Humors: hence it was wont to be called the windy Disease. Now, how Wind is bred of Melancholy we shewed in the Tympany.

Sometimes pains arise in the Stomach and Hypochondria, of the same winds which reach to the Back and Loyns, so that you would think it the Stone of the Kidneys, especially if the Urin be thick and red, as usually it is.

The Belly is often bound, because the Meat is turned into clammy Matter, which sticks to the Guts, which the expulsive Faculty cannot cast out without help of Medicines, and therefore the Patients are constrained to take Purgers and Clysters often.

Sometimes there is a Flux of the Belly, if the humors grow sharp, and have in them much Choler or burnt Melancholy.

There is a heat in the Hypochondria, and a certain Inflammation upward, sometimes in one side, sometimes in another, from hot humors contained therein, especially when they are moved by inward or outward means; so that the Face will grow hot and red from those vapors, and sometimes there is an Ephemeral, or Fever for a day, by those vapors sent through the whole body.

The Urin is sometimes thick, sometimes thin. Thin, when thick humors stop the passages through which it is as it were strained, thick, red and troubled, by reason of the mixture of the thick matter, which is very salt, and therefore called (*Materia Tartarea*) and it lies at the bottom of the Urinal like a thick Sediment. Or some part of it sticks like red Sand to the sides, which makes many fear the Stone without cause: this same is not bred in the Reins, but in the Liver, from a burnt and salt humor; and you may know this, because it dissolves between the Fingers like Salt, which will not when it comes from the Reins.

Sometimes there is a Palpitation, or beating of Heart, by reason of the vapors ascending, which while it labours to expel, makes it move violently; and then the Patient thinks himself in great danger.

Sometimes there is a beating in the left Hypochondrion, when hot humors are there; from whence vapors arise, and make the Pulse, or Systole and Diastole of the Arteries greater; so that both the Patients and the standers by may feel it, which is chiefly after heat with anger, motion, or drinking of much Wine. This beating is chiefly in the Coeliack Artery, which is the chiefest in that part. In an old Disease it is sometimes constant; and this signifies an habitual and incurable Disease. An Aneurism sometimes followeth this great breathing; from the enlarging of the Coeliack, or some other Artery, and from the hot blood in them, which being very thin, and full of many hot Spirits, continually dilateth and stretcheth the Arteries while there is an Aneurism, such as *Fallopini* observed, *Lib. de Tum. præter naturam, cap. 14.* in an old woman, who being opened, had an Aneurism in her Belly, into which he put his fist. From which, mark by the way. the great Providence of Nature, which fearing the breaking of an Artery through too much enlarging, hath made the Coat of it hard as a bone, as *Fallopini* observed in the same place. Also *Paracelsus* in his sixth Book, *Cap. 28.* tells the like story of an Aneurism, found not in the Belly, but the Breast, in the Venal Artery, which was so stretched that it could contain his fist; and also the inward Tunicle thereof was like a bone. And we have seen the like about two years ago, namely, an Aneurism in the Breast by the dilatation of an Artery, which would hold the fist of a Boy of fifteen years old; and the Tunicle thereof was grown like a Gristle.

The evil vapors that ascend from the Hypochondria produce many symptoms: for being sent to the Palate and Tongue, they dry these parts, and cause a thirst: when they go to the Lungs and Midriff, they cause shortness of breathing: when to the Membranes of the Brain, Head-ach; when to the Brain, noise in the Ears, dimness of Sight, Giddiness, Fear and Sorrow, and divers Melancholy Phantries. And if they be malignant, and very sharp, they cause an Epilepsie, or Falling-sickness; if they come to the Nerves, Convulsions; and if they be stupifying they cause a numbness, and bastard Palsey, Coma and Apoplexy, if they get into the Brain. But if these vapors be hot and dry, they dry the brain, and cause watchings, troublesome sleep, and frightful dreams: and at first, though they sleep well after Supper till midnight, afterward they wake, some three or four hours, and some sleep again about three or four a clock, others not at all. The reason whereof is this: Because while the Chyle is carried to the part that serveth for the second Concoction, then the evil humors lying in the Vessels are stirred, and send up vapors, which being sent by the Veins and Arteries to the head,

head, cause watching; and if they be quickly discomfited, they sleep again; but if they continue long, they watch the other part of the night.

We have formerly spoken of all these symptoms, and we say again, That all are not in all men, but more or fewer, according to the variety of the humors and parts affected.

This also is to be marked; It is not Essential to Hypochondriack Melancholy, that stretchings, hardness, pain and swelling, should be in the *Hypochondria*, because the cause is for the most part in the branches of the Gate-vein, and Arteries adjoyning, and sends from thence vapors to the heart and brain. Oftentimes there is stretching in the Liver and Spleen, which signifieth, that the humors stick in those parts, but if there be no stretchings, it is a sign that the evil humors lye in the Veins of the Mesentery, Caul, Sweet-bread and Stomach. These proper symptoms shew that the Stomach is affected with four belchings, and stinking or loathing, vomiting, want of concoction, and sometimes Flux of the Belly.

PROGNOSTICK. This Disease is not deadly for the most part, but of long continuance, many times the whole life, therefore it is commonly called the disgrace of Physicians, because they do seldom cure it; and if the Patient seem to be cured, it returns again in a few Months: it is also called the Scourge of Physicians, because they who have it are continually asking new Medicines, and presently wearied therewith, and daily complain to the Physicians, and often change them.

The Flux of the Hemorrhoids doth good in this Disease, if it be moderate; but if it continue long it is dangerous.

A thick Urin is better in this Disease than a thin and watery, which shews that the thick humors are detained in the body. Black Urin without a Fever, doth often cure this Disease.

It's good in this Disease to have a loose Belly, and bad to be bound. Also Vomiting, if the Patient be refreshed thereby, is profitable; but if it continue long, it is dangerous.

A giddiness and continual pain in the Head in this Disease, ends in an Epilepsie, Blindness or Apoplexy.

CURE. The Cure of this Disease is in three things chiefly: first, in opening Obstructions: Secondly, in amending the distempers of the Bowels; and in discharging of the peccant humor, not omitting Strengtheners: For which a wise Physician may use these following.

First give a Clyster, then this Potion:

Take of Senna half an ounce, Annis seeds and Cream of Tartar, of each one dram: Borrage-flowers, Fumitory and Sorrel, of each half a handful; Liguoris three drams, boyl them to three ounces. Dissolve in the straining, Rhubarb infused in Lavender Water one dram and an half: double Catholicon three drams: Compound Syrup of Succory one ounce. Make a Potion; to which you may well add in a strong Melancholy, one dram of Confectio Alkermes.

The day following, let blood from the left side chiefly, or as the Liver or Spleen are most affected.

Then give these Broths:

Take of Sparagus, Dogs-tooth and Succory Roots, of each half an ounce; Agrimony, Ceterach, Maiden-hair, Bugloss and Succory, of each half a handful; Cream of Tartar one dram: boyl them with a Chicken, and make Broth ten or twelve days, adding four drops of Spirit of Vitriol to cool and open more.

In old obstructions, you may add to the former, China Roots, Saxafras, white Sanders, Smallage Roots, and male Fern Roots, Betony, Scabious, Coriander prepared, Raisins, and the like.

If the Belly be bound, or the Body very foul, give in every third draught of Broth, half an ounce of Senna, with Annis seeds.

Or this Apozeme instead of the Broth:

Take of Bugloss, Sparagus, Succory, and Sorrel Roots, of each one ounce: the middle rind of Tamarisk and Ash, of each half an ounce: Agrimony, Ceterach, Maiden-hair, Dodder, Succory, Fumitory, Hops, Bugloss and Borrage, of each one handful: the four cold seeds, Annis and Fennel seeds, of each two drams; Currans one ounce: Senna and Polypody of the Oak, of each two ounces; Dodder of Time one ounce; the best Agarick and Rhubarb infused by themselves in Cinnamon water, of each two drams; Mace and Cloves, of each one dram; the three Cordial Flowers, of each one pugil: Boyl them to a pint, and dissolve in the straining Syrup and Succory with Rhubarb, and of Roses solutive, of each two ounces. Make an Apozeme clarified and aromatized with two drams of yellow Sanders for four mornings draughts.

Or give Cock-Broth thus made:

Take of the Roots of Asparagus, Bruscus, and the Bark of Caper Roots and Tamarisk, of each half an ounce; Agrimony, Ceterach and Maiden-hair, of each one handful; Annis, Citron, and Carduus seeds, of each one dram; Senna half an ounce, Polypody of the Oak, and Epithimum, or Dodder of Time,

Time, of each three drams; Cinnamon one scruple, Crystal of Tartar one dram. Boyl them all with half a Cock, which let him take four mornings.

After you have sufficiently purged, a Bath of warm water is most convenient, used many days, in which cool Herbs have been boiled, and sweet Apples. Sometimes it is made of Barley and Almonds beaten, and put into a Bag, and boyled in water. It must be often repeated, if the season will permit; for Galen 8. de loc. aff. cap. 6. saith, that he cured many melancholick men, only with the use of hot Baths, without any other Medicine. And if the Patient cannot endure a whole Bath, let him have one for half the body.

And lest often washing should hurt the Stomach, when he enters into the Bath, let it be anointed with Oyl of Nutmegs by Expression, or the like.

When he goes forth of the Bath, let the Region of his Liver be anointed with the Cerat of Sanders, or oyntment of Roses washed in Oxycrate.

After his last Bath, let the Hemorrhoids be provoked with sharp Suppositories, or with rubbing the Anus with Fig-leaves, or with a rough linnen Cloth; and with two or three Horse-leeches applied to the most apparent places, take away five or six ounces of blood. And this must be done every Spring and Fall, and sometimes once a Month.

They who are used to have the Flux of the Hemorrhoids, if it hath been long stopped, so that they will not appear, must have a Cupping glass applied.

If after the Leeches are fallen off, they bleed still, as sometimes they will, stop them with Clay or Powder of Coal, or with Spiders Webs, or with Powder of Lime, or with astringent Powders taken up with the white of an Egg and Pledgets.

And if you cannot conveniently open them, it is good to draw blood from the inferiour Veins, that the most impure may be voided.

An Issue burnt in the left Leg doth purge the Spleen and other Bowels from superfluous humors, and therefore forget it not.

But because this Disease useth to be very stubborn, and after Purging new humors return, you must purge by fits, that the body may be freed from them by degrees; which may be well done by a Magistral Syrup, made thus:

Take of new-drawn purified Juices, of the Flowers of Borrage, Bugloss, Endive, Succory, Fumitory and Sorrel three pints; the Juice of sweet Apples newly drawn and cleansed two pints; fresh Polipody of the Oak half a pound; clean Senna eight ounces, Dodder of Time three ounces, Agarick newly made into Troches one ounce; Ginger and Cloves, of each one dram. Infuse them and strain them according to art, till there remain five pints and a quarter of the Liquor, in which dissolve the straining of an ounce of Rhubarb dissolved in the said Juices by themselves with a little Cinnamon, and one pound of Sugar. Make of these a well boyled Syrup; clarify it, and aromatize it with two drams of the powder of the three Sanders, keep it in a Glass, and let him take two ounces thereof, twice or thrice in a month, with a little Chicken Broth, boyled with Endive, Sorrel, Borrage and Burnet.

Or instead of the Syrup, you may give Pills, especially in Winter, such as were mentioned in the obstruction of the Liver; or if you fear they are too hot, you may make these following:

Take of Polipody of the Oak half an ounce, Asarabacca Roots, and Broom-buds, of each one dram; Currants three drams, Crystal of Tartar one dram and a half, Bugloss and Borrage-flowers, of each half a pugil; Boyl them in Spring-water. Take half a pint of the straining being well clarified, and six ounces of the Juice of sweet Apples also well clarified, and infuse therein one ounce of clean Senna: Turbith and Agarick, of each three drams; Mace, Cloves, Cinnamon and Dodder of Time, of each one dram; digest them four days in Balneo Mariæ, then strain them, and add to the straining one ounce of the Extract of Aloes made in Endive and Sorrel water; Myrrh dissolved in Wine and strained, two drams: Salt of Tartar one dram. Evaporate them all, and inspissate and thicken them upon a gentle fire, adding towards the end when the matter is almost evaporated, Diarrhodon Abbatis, Latifans Galeni, and the Troches of Dialacca, of each half a scruple; bring them into a mass for Pills, and let the Patient take half a dram once in a Week, two hours before Meat.

Pereda witnesseth, That he hath cured many Melancholick men with this following Powder; and he calls it Blessed and Divine.

Take of Dodder of Time half an ounce, Lapis Lazuli, and Agarick in new made Troches, of each two drams: Scammony one dram, Cloves twenty: mix them into a Powder, and give two drams twice or thrice in a month with Whey or Borrage Water.

If you cannot conveniently give often Purges, it is good every other day to give a Clyster to reveal vapors, and draw forth some part of the humor: for if they go deep into the Guts, they take away the greatest part of the filth from the Meseraicks. We knew a Noble Man, who being long troubled with this Disease, was cured by often Clysters, when other Medicines did nothing.

While you give intermitting Purges, let the body at other times be moistned with Baths, or half Baths or Fomentations, by which, both the violence of the Humor is restrained, and the Body made moister.

Also at those times you must use strengtheners, which will all open Obstructions, and they use to be made often like Opiates, or a hard Electuary or Lozenges, thus :

Take of Conserve of Bugloss Roots half an ounce ; Conserve of Borrage flowers and Violets, of each one ounce ; Conserve of Roses and Candied Citron peels, of each half an ounce ; one candied Myrobalans ; Confection Alkermes three drams : Powder of Ivory, Harts-horn and Bezoar stone, of each one dram : Latificans Galeni, Diarrhodon Abbatis, of each two scruples : Coral and Pearl prepared, of each half a dram : Ambergreece half a scruple : the best Musk five grains : Gold three Leaves : with Syrup of Apples and of Candied Citrons make an Opiate, of which give the quantity of a Chesnut two hours before meat, every day drinking after it a little White-wine.

A plainer and better tasted Opiate is made of one part of Confection Alkermes, and four parts of Conserve of Borrage Flowers. And to open more powerfully, if you fear no hurt by hot things, add Conserve of Tamarisk Flowers, Elicampane Roots, Wormwood, Maiden-hair and the Salt of Wormwood and Tamarisk, &c.

You may make Lozenges thus :

Take of Diambra, Diamoschi dulce and Latificans Galeni, of each one scruple : Confectio Alkermes three drams : Sugar dissolved in Borrage and Rose-Water, four ounces : make Lozenges of two drams in weight gilded. Let him take one every day two hours before meat.

Or you may make them more pleasant thus :

Take of Confectio Alkermes two drams : Ambergreece one scruple : Sugar dissolved in Rose-water four ounces. Make Lozenges.

Ambergreece alone, given five or six grains at a time every day with Wine or Rose-water, doth cheer the Spirits and the Natural heat, and much rejoyce the heart.

Some Authors do much commend the use of Bezoar stone against all Melancholick Diseases, because it doth much strengthen the heart, and you may give five or six grains in Rose water, or other Liquor.

After the body is well purged, if it be Spring or Summer, you may give Whey for fifteen or twenty days, which will open the Obstructions of the Bowels, and amend the hot distemper. Make it by boyling and clarifying it, and putting into it every night two drams or half an ounce of Epithimum.

You must proportion the quality according to the strength of the Stomach. For if it can easily pass through the Veins, being somewhat open and be sent forth by stool and urine, it is good to give it in great quantities, as Mineral Waters prescribed in the hot distemper of the Liver, with this Caution, That you strengthen the Stomach with Bags and other things hereafter mentioned, and give every day at Evening a Cordial strengthening Opiate. Instead of Epithimum, you may mix with the Whey, the juyce of Succory, Borrage, or of any other proper cool Herb, thus :

Take Goats Whey four or five pints : the juyce of fresh Lemmons four ounces : the new juyce of sweet Apples six ounces : Conserve of Roses or Violets, or white Sugar one ounce. Clarifie these with whites of Eggs. Let him take every morning three or four Cups thereof, if his Stomach will bear it.

In bodys that are very lean, after the Obstructions are a little opened, you may give Asses Milk with Sugar of Roses ; and if there be rumbling in the Hypochondria, a little *Aromaticum Rosatum* or Diarrhodon Abbatis will do very well.

But your sharp and Vitriol Mineral Waters are beyond all Medicines, which by correcting the distemper of the Bowels do powerfully open Obstructions, especially the warmest, which do make the humor thin, and cleanse it.

There is great dispute among Authors concerning drinking those waters. Some (with Sennertus) do allow it, because they receive virtue from their Minerals, and do thereby both cleanse the passages, and send forth the filthy humors which stick to them by stool and urine : they warm the stomach, and strengthen the Liver and Spleen : And we may rather fear that these waters will hurt by the use of them external than internal, by heating and drying. Others (with Claudinus) do altogether deny them, by reason of their drying quality. Others (with Montanus) do neither altogether reject them, nor wholly approve of them ; they say they are good, by reason of the coldness of the Stomach, which is always in this disease, and by reason of Obstructions. But in regard the Liver and Spleen are hot, they will have them defended with the cool Oyntment of Galen. And also the Loins, for then (saith he) the water will not hurt, because it stays longer in the Stomach, and cold places, but onely passeth through other parts. We suppose that the use of them is convenient, if the Stomach being cold have much thick and clammy slegm in it, and if the heat of the Liver be not very great,

Great. Which part is not like to suffer, if the aforesaid Oyntment be not only given, but also cool Broths after the Waters: and after they have been used enough, cold and moistening Baths for some days.

Medicines made of Steel, use to be of great Vertue to open these Obstructions, such as are mentioned in the Obstruction of the Liver, and of the Spleen, avoiding those which do heat and dry much. In hot bodies you may give Steel prepared with Brimstone or Vinegar, with Conserve of Borrage and Succory, made in the Form of an Opiate.

For dainty Folk, the Syrup of Steel aforementioned in the Obstruction of the Liver and Spleen is excellent; or the Froth which remains in the Glass after the Evaporation of the Wine which hath been often steeled mixed with the aforesaid Conserve.

But Salt of Vitriol of Iron goes beyond all Medicines, because it opens Obstructions, strengthens the Bowels, and qualifies their heat. The Dose is from twelve to twenty grains, with a fit Liquor, Syrup or Conserve. But because it is displeasing to the tast, I use to make it into Pills with the Mucilage of *Gum Tragacanth*. You must use it long, and therefore get a great quantity, which is not easie to be got after the way that *Beguinus* and others make it. We will shew you the easie way of making it, which few men know.

Take of the Oyl of Vitriol, or of Sulphur half a pint: the spirit of Wine one pint: Put them in a new Iron Pan that is clean, and cover them well: within fifteen days, of them there will be a Salt-like gathering, which you must set in the Sun to dry it thoroughly, sometimes stirring it with an Iron Spatula: In Winter you may dry it upon a gentle fire, or in a Hot-house. Let the Salt being well dried, be kept in a close glass: for if it be exposed to the Air, it easily turneth moist. Also the Pills that are made thereof, of *Tragacanth*, must be hardened with the Powder of *Tragacanth*, and after put in a Glass, otherwise they will grow moist. You may continue this Medicine for a moneth or two, not only without hurt, but with great profit.

Fonseca commends these Pills following, which he calls *Diatartarum* for opening Obstructions by degrees, and purging Melancholy gently, and for allaying it.

Take of the Powder of Senna, and Salt of Tartar, of each one dram: Powder of Cinnamon half a scruple: with syrup of Lemmons make a Mass, of which give three Pills made of half a dram one hour before Supper, to give him two or three stools, for Salt of Tartar hath great Vertue to allay black melancholick humors: for it draweth to it self by certain propriety sowre things, as you may perceive when it is mixed with Vinegar, or Spirit of Vitriol whose sowreness it taketh away: For we must know, that *Fonseca* by Salt of Tartar, meaneth Crystal of Tartar. Yet you may as well infuse your Senna with the Salt of Tartar, and some drops of Spirit of Vitriol in some convenient Liquor.

To open the same Obstructions, some commend the decoction of *China*, as we said in the Obstruction of the Spleen; which a wise Physician may do with good success.

Some commend the Juyce of Wormwood, thickned into the form of a Pill, given either by its self, or with *Gum Ammoniacum*; and after that presently, Oxymel made of the decoction of Asarum Roots and Liquoris.

Others say, That Hypochondriack Melancholy hath been cured with the decoction or Wine of Wormwood taken thirty or forty days every Morning.

The Juyce of Bugloss is excellent, not to open Obstructions as Wormwood, but to qualifie the Melancholick Tumor. Therefore they give two ounces thereof with two drams of Sugar, and as much Wine as of both, for ten or twelve days every morning.

The principal thing for this Cure, is to keep the body always soluble: Therefore the Patient must have some familiar Medicines, which he may often use before meat, sometimes one, sometimes another, lest he grow weary of them. For this he may take the Magisterial Syrup, and the aforesaid Pills, and those which were prescribed for a costive Belly. To which he may add (out of *Montanus*) Venice Turpentine, which he orders to be swallowed in the quantity of an Acorn, three hours before dinner, once, twice or thrice in a week; for besides that it loosneth the belly, it also cleanseth the stomach, opens Obstructions, provokes Urine, warms the stomach, and doth not heat the Liver, but doth it good by opening and cleansing it.

For his ordinary drink let him use water wherein Gold hath been quenched, or the infusion of Tamarisk, Agrimony, Burnet in thin Wine, either alone, or made Physical Vintage time with the Roots of Bugloss, Borrage with a little white Sanders and Rosemary Flowers.

The decoction of the Sweet Bryar Root, is commended for ordinary drink; for it openeth and strengtheneth all natural parts.

The decoction of *Lignum Nephriticum* doth open the Obstructions of the Bowels without any manifest alteration. But steeled water is more usual. All which Waters and Decoctions, you may also mix with Wine.

While

While the internal Medicines mentioned or any of them are used, you must apply External, as Fomentations and Oyntments to the Hypochondria, such as are prescribed for the Obstructions of the Liver and Spleen, making choice of the coolest.

You must also apply strengtheners to the Stomach, because that part doth always suffer in this Disease; therefore you must use those Fomentations, Oyntments and Emplasters mentioned in the Diseases of the Stomach: Also those internal which will not inflame the Liver; and especially the Digestive Powder to be taken after meat: in a Fit when the Vapors arising from the Hypochondria do trouble the Heart, Brain and other parts, and produce great Symptoms, as Swoonings, Palpitations, Tremblings, Convulsions, Head-ach and the like; you may use those things which are given in Swooning or the Mother; but among the rest Laudanum used wisely doth wonders.

CHAP. VI.

Of the Scurvy.

THe Scurvy is usual in the North, in most places thereof Common, but almost unknown in the South; So that all Writers that have practised in these Parts, have never mentioned it: and we may well leave it out, because in our Preface to this Book we promised to meddle only with the usual diseases of the Spleen; but Experience hath taught us, That our Country is not altogether without it; for though it be not in every Symptom the same with that of the North, yet it hath enough to confirm it to be the same: for the aforesaid Authors say that one Symptom is sufficient to discover it; we have seen many symptoms of it in many people, but because it is not familiar here, and all our Physicians say we have it not, we would not absolutely call it a Scurvy, but we thought it better to call it a Scorbutical Disease, such an one as comes next to it, though it be not a true Scurvy.

For the Scurvy is nothing else but an Hypochondriack Disease: having a peculiar degree of Malignity from which more symptoms arise than in the Hypochondriack Disease: this malignity comes from the Putrifaction of Melancholy, not of every kind of Melancholy, for it is often corrupted, from which other Diseases arise and not the Scurvy, as a quartane Ague, an Imposthume in the Mesentery and other parts; but of a peculiar and proper Melancholy which is agreeable to that Malignity. This is known by the infection which is found in this disease, because all Authors hold it to be infectious. And because all the degrees of Malignity which lie in the Humors and produce divers diseases are unknown unto us and all Men, therefore is this of the Scurvy obscure and hidden; and it is wonderful that so many diseases should arise from the variety of the Malignity which is in the humors, as Malignant and Pestilential Feavers, Small-Pox and Measels, Cancers and Elephantiasis, the Pox and many others. And especially Elephantiasis comes from a peculiar Malignity in a Melancholick humor, and so doth the Scurvy, and yet these two diseases differ so much, that none can tell their divers degrees of Malignity.

Divers Symptoms common to both do shew a great likeness of the Scurvy and Hypochondriack Melancholy: for all they which were mentioned in the former Chapter are found in this disease, as Crudities and want of Concoction in the Stomach, often spitting, flegmatick, sharp and stinking vomirings, noise in the Hypochondria, belchings, breaking of Wind downwards, vomiting of blood, and purging of blood, pains from wind under the Ribs and in the Stomach, sometimes Costiveness, and sometimes looseness, heat in the Hypochondria, beating of the Left side, Urine now thin, then thick, heart-beating, thirst, drought of the mouth, short breath, head-ach, noise in the ears, dimness of sight, giddiness, sorrow and sadness, and divers dotings, convulsions, falling-sickness, numbness, coma, watchings, troubled sleep and terrible dreams: The reasons of all which were shewed in the Chapter above, and they may agree with this of the Scurvy.

But if any Symptoms appear besides these, which are not to be found in that, nor mentioned by Authors, nor belong to another Disease; you may conjecture that it is the Scurvy: The chief are these, which are not all found in one Patient; but one of them is sufficient to shew that the Disease is such.

The First most remarkable sign is in the Gums, Mouth and Teeth, in the Gums, redness, itching and putrifaction, and sometimes bleeding and stink, which were sometimes in the Palate, Jaws and Teeth, which are loose and black.

The Second, which is an evident Sign also, is Spots in the Legs which at first are Red, and after purple, blue and black: Sometimes there are in the Legs broad spots, black or blue, or both; these come from the ferous filthy part of the blood which is unfit to nourish the body, and therefore is sent by nature out of the Veins of the Skin, by the Nausiosis of the Veins, as Hippocrates saith of Fractures, and this happens often in the Shins and Legs, because nature useth to send the worst Humors

to the most ignoble and remotest parts; sometimes when there is more plenty of matter you shall find them in the Back, Arms, Neck and Face.

The third Sign is shortness of Breath, and straightness of the Breast, which comes commonly from thick Vapors arising from the Hypochondria that get to the Midriff, as also from Tumors and swellings by wind of those parts that press upon the Midriff, especially from the swelling of the Sweetbread, which commonly in this disease is filled with gross Melancholy: Hence the Patients complain not of their Breast, but of the part affected, whereby they feel the weight, and by reason whereof Breath is short, as *Engalenus* noted well, who was much acquainted with this disease, and collected many Observations thereof; yet he knew not the cause of this weight, namely, the swelling of the Sweetbread; nor doth any that write hereof make mention of it. Yet we observed it in my Lord *Andeyer*, President of the Senate of *Gratianopolis*, whom we thought had the Scurvy, as you may read in his History at length, in our Observations, *Cent. 3. Obs. 85*. For being very lean, we did easily perceive with our Fingers, a hardness in the Sweetbread; and by handling of the part, he confessed that all his shortness of Breath, and straightness came from thence.

The fourth Sign is Laziness and heaviness of body, especially in the Legs, which comes from watery and foul humors, which come through the Veins to the Muscles and whole body.

The fifth Sign is in the Urine, which is divers, as in Hypochondriack Melancholy; but in this they sometimes differ, because they are clear and red like a Lye, from the plenty of Salt Humors. The redness is higher and inclining to black, by how much the more Salt Humor there is. As in a Lixivium sometimes the urine is very thick, with a red thick Sediment, like the Powder of Bricks, and sometimes this Humor is so much, that it causeth burning and pissing by drops, especially in them who have this Disease from stoppage of the Hemorrhoids; and after it is settled, the third or fourth part of the Urinal is filled with thick and black filth, which makes some think it to be the Stone or Ulcer of the Bladder.

Sometimes the Urine varieth without manifest cause; to day thick, to-morrow thin; now pale, then yellow or red.

The Sixth Sign is from the Pulse, which is now weak and unequal, leapings or formicans that you would wonder he should live with it; anon it is great and hard, without Inflammation. And this is to be observed, that in time of fainting and swooning, with which he is often troubled, his Pulse is greater and strongest. Which comes from the Heart contending to cast out those Vapors with which it is oppressed.

The seventh sign is the pain in divers parts: in the Thighs heavy, and sometimes stretching; sometimes *Ostokopos*, or at the bone; sometimes in the Shins, Ankles, Soles of the Feet, in the tips of the Fingers, in the Hips, Knees and other Joynts, or parts to which the Salt humors flow; sometimes in the belly, like the Cholerick Cholick; and it comes from these humors flowing upon the Caul: these in the Arms, Thighs and Legs are like those of the Pox, and may well deceive a Physician in *France*, where the Scurvy is rare, and the Pox common.

But they may be thus distinguished; the pains in the Pox are between the Joynts, and if they stay long, make knots, and there are, or have been then also other symptoms of it, as running of the Reins, Ulcer of the Yard, Bubo and the like, or uncleanness with Women. But the Scurvy pains seize upon all parts indifferently; and then there are other signs of it, or at least a Melancholy Constitution; and the matter is certainly known, if the Patient will truly say that he hath not been with unclean Women. Which caused our suspicion in a Magistrate, who had a long time great pain in his Feet, Shins and Thighs, and was brought very lean, so that you would have thought that he had the Marasmus or Consumption: and when no Medicines for a long time would do him good, we from his Melancholick Complexion and other signs, especially because he led a most chaste life, and because for many years his Gums did bleed at certain times, conjectured that it was the Scurvy, and by using things against that Disease for some time, he was Cured.

Sometimes those pains remain in the Hypochondria, sometimes in the Loyns, so that they are weak, and can scarce go. Hence this Disease is called *Lumbago*.

Sometimes the pains are like the Stone, and the Urin is very red or black and if you do not diligently observe, you will think they are bloody, and that it comes from the Reins wounded by the Stone when it is from a Scurvy salt-matter in the Spleen, and parts adjacent sent into the Urine.

Some have Head-ach, and heat at nights, if they caught this Disease from stoppage of the Hemorrhoids, by reason of the Vapors which ascend, and all the night after they are as in a Fever all over their Bodys, which the next morning vanisheth by sweating.

They have often the Tooth-ach, without any evident reason or cause; and it is not in one place, but moveable from one Tooth to another, making them loose, and they again fix of their own accord, the pain and Tumor being disruffled.

Sometimes

Sometimes the pain of the Scurvy is in the sides, imitating the Pleurisie; from which it is easily distinguished, because it is without a Feaver, at least a strong one; the breath is not hindered, there is no Cough, no spitting, nor is the pain constant, but coming by fits.

Also it will be in the Joynts; and we must declare how it is distinguished from a true Arthritis or Joynt-Gout. The pain of the Joynts in the Scurvy is not fixed and constant in the same place, but runs from one Joynt to another, either on the same, or on the contrary side; sometimes it vaniseth, and then returns; so that he which now seems free, and in perfect health, is suddenly taken with pain, sometimes with swelling, sometimes without. But a true Joynt-Gout seldom changeth the place.

The Joynt-Scurvy hath this peculiar distinction: It is for the most part joyned with a small Palsie, by reason whereof the Patient can hardly move the part affected; and when the Palsie seizeth or returneth, the pain doth so also.

The eighth sign is from the divers hinderances of Motion, they have a Bastard-Palsie, the Examples whereof we laid down in our Observations: and it is distinguished from a true Palsie, because this is constant; but in the Palsey from the Scurvy, he that yesterday could scarce set one foot before another, can now stand and walk with a little help, and it may be presently after he cannot move at all: and sometimes the motion is trembling, and with Convulsion, which doth not happen in a true Palsie. And this kind of Palsie cometh from a filthy kind of matter or vapour, which gets into the Nerves and Muscles. And if the Matter be sharp, it causeth trembling and Convulsion by pulling the Nervous parts.

And Convulsions are not only in some peculiar part, but sometimes in the whole body like an Epilepsie, by a windy or watry matter full of sharpness and malignity, which is sent to the Brain, which being disscussed doth give ease, and gathered again maketh new Convulsions.

Also in this Disease there is a Contraction of the Members, sometimes of all, so that the Patient cannot move one Joynt; sometimes of one, and that principally in the Leg, when the Tendons which are made to move the Leg grow hard and stiff in the Hams. This contraction comes by reason of the salt humor that flows with much moisture to the Nerves and Tendons; and when the thin and watery part through continuance of time is consumed, the thick is dried and made hard: from whence come these contractions of Nerves and Tendons.

Sometimes there is a contraction in the Gullet, so that the Patient can scarce swallow, and is in fear of strangling. And this comes from astringent vapors, which contract the Oesophagus or Gullet.

The ninth sign is the Flux of the Belly, either with, or without blood. The simple Flux which is without blood, is distinguished from others, in that the Excrements are thicker, and more than the quantity of Meat that is taken; when a common Flux is more thin, and of humors only.

The Flux of Blood in this Disease is distinguished from a Dysentery, because it is without pain of the Belly, and it is thick blood which is sent into the Guts by the Meseraick Veins. Sometimes the Hemorrhoid Veins do receive that filthy blood, and send it forth: but if this Flux of the Belly continues long, the Veins swell, and send forth not only much blood, but also other salt and slimy humors.

The tenth sign is a stinking Breath, which is common to all in the Scurvy, as *Eugalenus* witnesseth, so that they which stand by cannot endure it, but must turn aside their Noses.

The eleventh sign is often shivering, with none or little heat following it.

The twelfth sign is an intermitting Feaver, which sometimes they have, which are unlike the other ordinary Agues or Feavers: for in them the Pulse is weak, slow, and unequal, especially in the declination; but in the height it is commonly great and hard. Besides, at the first coming there is such a twitching in divers parts, especially the Legs, that they suppose their flesh to be torn; and sometimes they have Convulsive motions therewith. And though sometimes this Ague is a Quotidian, Tertian or Quartan, yet sometimes the fits are disorderly, coming once, it may be, or twice in a Month without certainty.

The thirteenth sign is Tumors in divers parts; sometimes hard, sometimes soft like Bladders, and sometimes like an Erysipelas, or red Tumor.

The fourteenth sign is Atrophy or Consumption; which is so great in this Disease sometimes, that they are nothing but skin and bones like a Skeleton or Anatomy: especially after long sickness, which comes from the evil blood, so changed from its natural Condition, that it cannot be made like unto the parts which it should nourish.

Eugalenus propounds many other signs of the Scurvy, and *Sennertus* with others: some whereof are common to many other Diseases; which we will conceal, lest they breed confusion.

And though (as we said) the Scurvy is not ordinary in *France*, as in *Poland* and other Northern parts, and almost unknown; yet if any in practising Physick shall observe all the symptoms of Melancholy, he shall find some inclining to the Scurvy, in whom some of the former symptoms proper to the Scurvy will appear.

PROGNOSTICK. As to the Prognostick: This Disease is hard to be cured, as all other that come of Melancholy, and here much more hard, because of the malignity in the Melancholy which doth more cruelly overthrow the body, and will not obey the greatest part of Medicines.

It is also dangerous, because it many times brings a Consumption or Dropsie, and destroys others by sudden death, by an Apoplexy, Swooning, and other acute Diseases.

Yet sometimes they who have seemed desperate have been cured, and oftner in this Disease than in any other: And we have seen some brought to a Consumption by long pain and Bloody Flux (which by many circumstances we conclude to be from the Scurvy) to have been perfectly cured.

Moreover, the Pulse is deceitful, especially in the Fits; it will be so quick, small and unequal sometimes that the Patient seems to be at Deaths door, yet after his Fit he will rise from his bed, and is as formerly: As we peculiarly observed in a *Dutch* Scholar, unto whom we being sent for in the time of his Fit, thought that he would presently die; but the next day we saw him seemingly in very good health; and when we had examined the Circumstances of the disease, we concluded that he had the Scurvy, which he brought out of his own Country where it is very usual.

CURE. The same Cure is to be used in this disease as in *Hypochondriack Melancholy*: because as we said at the first, it comes from the same humor more differing from its natural state; therefore for the most part it needs stronger Medicines.

But because this is a general Rule in Physick, that we always begin with the weakest Medicines, and so proceed to stronger, if the former will not cure: It will be good in this disease to appoint the whole course of Cure for *Hypochondriack Melancholy*, because a stubborn disease requires a long course; and if that will not root out the disease, let us then use the Medicines more specifically proper: And it will not be amiss to mix some with the other at the beginning.

These specifical Medicines are called *Antiscorbutica*, or Medicines proper for the Scurvy, and there are many of them in Authors that have written of this disease; whose strength chiefly depends upon a Volatile or flying Salt, of which they are very full, by which means they make thin and fluid, that thick, earthy and salt humor, and at length dissolves it. Moreover, they have a certain preservative and opposing Vertue against the poyson of the Scurvy which is in the Melancholick humor. Among these, the chief is Dutch Scurvy-grass, which is not in *France*. Another is, Cresses of both sorts (but the Water-Cress is best) Brooklime, Horse-Rhadiſh, the lesser Celandine, Wormwood and Fumitory. To which may be added many others, but of less vertue, and all they are such which can prepare, correct and tame the melancholick humor. Hence it is that we directed the Cure against *Hypochondriack Melancholy* to be used here; Those are Carduus, Ceterach, all the Capillar Herbs, Hyſop, Germander, Betony, Agrimony, Borrage, Bugloſs, Elicampagne, Asarum, Ditch Dock, Polypody of the Oak, Capar, Ash, and Tamarisk Barks, Flowers of Elder, Tamarisk and Dodder of Time.

In the choice of these Plants, you must always observe this, that you give the least quantity of hot things, and that you always mix them with cold or moderate things, and in a great quantity, especially in hot Countries, in which melancholy is burnt. And besides the Capillar Herbs with Borrage, Bugloſs and Agrimony before-mentioned, when there is a Feaver, or we fear heat, you may add Endive, Succory, Sorrel, Juyce of Citrons, Lemons, Oranges, and also Spirit of Sulphur, or Vitriol, or Whey.

Of these former Plants you may make many sorts of Medicines, which are all gathered by *Sennertus* out of all Authors, which every man may imitate as he pleaseth. Yet this we must mark, which all Authors mention, That the aforesaid Plants work more powerfully if you take their Juyce, or make them into Conserves; because the flying salt wherein all their vertue remaineth is gone by decoction, as also if the Plant be dried.

We have used these following forms with good success:

Take of clear Juyces, of Water-Cresses, and Brooklime, of each one ounce; the Juyce of Fumitory two ounces; white Sugar two drams. Make a Potion.

Or,

Take of the Juyces of Fumitory and Water-Cresses, of each two ounces; mix them.

Or,

Take of the Juyces of Sorrel, Fumitory and Water-Cresses, of each two ounces. Mix them.

You may give more Juyce of Sorrel, if you desire to cool more, or Juyce of Lemons, or the like.

The power of the Medicines will be more to dissolve that sticking clammy Tartar, if you add one dram of Salt of Tartar with Spirit of Sulphur or Vitriol, one scruple or half a dram; and because in the use of these Medicines we purge often, it is good to infuse one dram or two of Senna all night in the said Juices, and give it every other day, or every third day.

It is worth your while to give sometimes also some steeled Medicines, such as we prescribed in Hypochondriack Melancholy; as also the strengthening and opening Opiates and others, as in wisdom you shall think fit.

And lastly, Mineral Waters that are sharp and of Vitriol, used in due season, are very beneficial for the Cure of this Disease.

The End of the Twelfth Book.

THE



THE
THIRTEENTH BOOK
OF THE
PRACTICE
OF
PHYSICK.

*Of the Diseases of the Mesentery, Sweet-
bread, and Caul.*

The Preface.

MAny Authors are very short in the Explaining of the Diseases of the Mesentery, Sweet-bread, and Caul; and the most of them have left them out, because they are hard to be known; and for the most part only from Dissection of dead Bodies; as appears by Stories in Schenkus, Sennertus, and others. Yet they are very ordinary and usual: from whence Fernelius saith, That oftentimes there are causes of many Diseases in the Mesentery: as of Cholera, Melancholy, Diarrhoea, Dysentery, Evil Habit, Consumption, Faintness, of lingering Feavers, Vomitings, Cholicks, Tumors and Imposthumes. And Sylvius called the Mesentery, the Mother of many Diseases; by others she is called the Physicians Nurse: We may say the same of the Sweet bread and Caul; for they are ignoble parts, and as it were sinks of the Body, to which the Noble Members do send their Excrements. And although these parts (as all other) are subject to all kinds of Diseases, Similary, Organical and Common, and many Symptoms arise from them; yet we will only speak of those which are most in practice, and comprehend this Book in five Chapters. The first shall be of the Obstruction of the Mesentery. The second, of the Inflammation of the Mesentery. The third, of the Imposthume, Schirrhus, and Ulcer of the Mesentery. The fourth, of the Diseases of the Sweet-bread. The fifth, of the Diseases of the Caul.

Chap. I. *Of the Obstruction of the Mesentery.*

CAUSES.

THese Obstructions in the Mesentery come of the same Causes which are mentioned in the Obstructions of the Liver and Spleen; but they happen more easily, and more often, by reason of the straitness of the Meseraick Veins, and especially of the Milky Veins, which carry the Chylous matter to the place of the second Concoction: and when that Chylous matter is filled with crude and thick

thick juyce it comes to pass that not having a free passage, it sticks in those little Veins and makes Obstructions. Also the Meseraick Veins are stopped by thick Humors sent from the Liver, Spleen and other parts, and there continuing till they grow thicker, so that sometimes they cause a Schirrus. With these humors sometimes gross Vapors are mixed, which use to be the cause of great Symptoms. To the Obstruction, or rather making narrow of these Veins, we refer compression, which comes from the Glandules which are spread through the whole substance of the Mesentery; from whence they grow beyond measure, as in those who have the Kings Evil or Struma, they compress the Meseraick Veins, and hinder both the passage of the Chyle, and of the blood.

SIGNS. The signs of these Obstructions are to be divided into three kinds, as we did in the Obstructions of the Liver; namely. into such as shew the Disease, the Part affected or the Cause.

The signs of the disease (that is) of the Obstructions lying in the Hypochondria, and also the signs of the Causes are the same with the Obstruction of the Liver and Spleen, and are from that Chapter to be taken. But those signs which properly shew the peculiar disease of the Mesentery, are stretching and resistance in the middle of the belly, and under the stomach, and about the Navil; a weight in the same parts; and sometimes a dull pain, and sometimes a most sharp, when wind is contained in those parts; sometimes there is a pain in the Back, because the Mesentery is tied to that part: there is rumbling in the belly, Belching and Vapors flying to the Head, from whence comes divers Symptoms: and lastly, all those which use to happen in Hypochondriack Melancholy, signifie Obstruction of the Mesentery, because that also proceeds, and is maintained by the same Obstructions.

PROGNOSTICK. As for the Prognostick: This Disease of its self, is not dangerous, because an ignoble part can endure great evils without danger of Death: moreover you may apply strong Medicines for the Cure, which being well administred, do commonly bring about the desired effect; except Hypochondriack Melancholy rise from thence, which useth to be called the shame of Physicians, by reason of the rebellious Nature of the Melancholick Humor. But because this part hath not exquisite sence, and the Obstructions do not always gently disturb the Patient, they are often neglected, and become the Causes of other most dangerous diseases.

The Cure of this Disease is the same with that of the Obstruction of the Liver, and you must fetch it from the Chapter treating thereof.

CHAP. II.

Of the Inflammation of the Mesentery.

Seing the Mesentery, as I said, is as it were the sink into which the Noble Parts do send their superfluous excrements, which afterwards are sent forth by Nature, either by Vomit and Stool; as you may see in some who send abundance of humors forth at divers times by Vomit and Stool; if those Evacuations be hindred, by stoppage of the ways by which they are made, or by any other cause those humors which are there detained, staying long in the part, do get a preternatural heat, from whence come Putrifactions, Inflammations, divers Feavers and Imposthumes. But an Inflammation is peculiarly made, when blood heaped up in the Meseraick Veins, by the opening of some branch is sent into the substance of the Mesentery: but because by reason of Obstructions it is chiefly gathered in those Veins, therefore all the causes of Obstructions may be referred to the causes of Inflammation.

CAUSES. For the making of this Inflammation, that sharpness and gnawing of the humors gathered together do much conduce, a fall or stroak upon the belly, the weakness of the attractive, coactive or retentive faculty of the Liver; too much heat of the body, or inordinate use of cooling things; the critical motion of Nature in Malignant diseases or small Pox, by which it sends the peccant Humors into this sink; a *Diarrhea* or *Dysentery* suddenly stopped.

SIGNS. The Signs of the Inflammation of the Mesentery are, a lingering Feaver without Thirst, and great Symptoms, want of the Appetite, a sence of stretching and heaviness beneath the Stomach, without great hardness, and the which is not felt by the hand pressing of it, and without pain worth the speaking of, because the part is of dull sence; Cholerick stools, which commonly have thin matter; without pain, sometimes mixed with Excrements.

If the Mesentery be only inflamed, all the aforesaid Symptoms are milder; But if the Liver or Spleen or Guts, are also inflamed, all the Symptoms are stronger: And besides, the signs of the aforesaid parts affected will appear, which are to be taken out of their proper Chapters.

And because the Inflammation and Imposthume of this part, are very hard to be known if they be alone, by reason of the dull sence of the part, and because it performeth no action in the body, whose hinderance may be perceived; but only serveth for the distribution of the Chylus and the Blood: therefore they are rather to be discovered by consequence, than directly, and according to artificial conjecture.

conjecture; namely, when there is a Feaver and other symptoms, and no sign of the Liver, Spleen, or Guts distempered. A half Tertian Ague sheweth that the Guts are inflamed with the Mesentery, which *Spigelius* observed to come commonly from the Inflammation of these parts. Also this disease is distinguished from the Inflammation of the Muscles of the belly, because the Tumor and pains are enlarged according to their proportion, and they are commonly long and over the whole belly, and more in the outward parts, so that they are perceived by the least touch, and they use to bring great pain and a Feaver.

Lastly, This Disease is to be distinguished from the Tumors of the Midriff, which have been, as yet known to few Physicians: for in them there is always great difficulty of breathing, drawing in of the Hypochondria, a Pulse hard and small, without any sense of Tumor in the Hypochondria. And if the Tumor come of a hot cause, a sharp Feaver, great pain, doting, and Convulsions do follow: which symptoms never happen when the Mesentery is only inflamed.

PROGNOSTICK. As for the Prognostick, This disease is very dangerous; for it either ends in an Imposthume, or there follows a rottenness, and corruption of the Mesentery. Oftentimes the Matter of the disease is sent by Nature another way, and yet it is not clean taken away, whence the disease returns, and continues for many years, sometimes till death, now with a Feaver, then Cholick or Inflammation.

CURE. The Cure of the Inflammation of the Mesentery, is not unlike to that of the Liver and Spleen, and therefore you must peruse that.

CHAP. III. Of the Imposthume, Ulcer and Schirrus of the Mesentery.

THe Inflammation of the Mesentery often turneth into an Imposthume, yet every Imposthume thereof is not from Inflammation, but many times from vitious humors therein contained, which putrifie, so that these Imposthumes come by degrees without a Feaver aforegoing, or other great symptoms; as we see in other parts, when *Atheromata*, *Steatomata* and *Melicerides* and other kinds of Imposthumes are bred without Inflammation going before. And when they are broken, the Matter being voided, there remains an Ulcer which is hard to be cured, But if those humors are very flegmatick or Melancholick, and resist putrification, they grow, and sometimes are hardened, and turn into a Schirrus: sometimes they are hard as a stone, as many affirm who have found stones in the Mesentery.

DIAGNOSTICK. The Knowledge of the Imposthume in the Mesentery is sometimes easie, sometimes hard; for if it comes from an Inflammation of that part, that being perceived by the signs in the former Chapter, it is a sign that the Inflammation could not be dissolved, but suppurated and turned into an Imposthume. But when an Imposthume comes from evil humors remaining long in the Mesentery, and at length putrifying, it is hard to know it; so that many Authors who have written Observations upon such kind of Imposthumes, say, that they never were known but after death, when the bodys were opened. For although for the most part, they may be known by the touch, yet sometimes they lie so deep that they cannot be touched, and the part being dull in sense, they will not be discovered by pain. But because they come divers ways, they must be thus distinguished.

If the Imposthume of the Mesentery hath a visible Tumor, it is first to be discerned from an Inflammation and a Schirrus: It is distinguished from an Inflammation if it come not from it, when there is no Feaver, or at least but small, when none went before, nor any other signs that may shew an Inflammation; but if it follow an Inflammation, it can no other ways be distinguished than by hardness and continuance; for if the signs of Inflammation have continued twenty or thirty days, it is a sign that it is turned into an Imposthume. It is distinguished from a Schirrus by hardness, which is great in a Schirrus, but in an Imposthume there is some kind of softness, as also by want of pain altogether; for in an Imposthume there is always some pain, especially if it be pressed hard. Moreover, this Tumor is distinguished from the Tumor of other parts, by the situation thereof, as we said before of the Inflammation of the Mesentery. But if the Imposthume lie in the Mesentery without any visible Tumor, there can be no certain sign, but by an artificial conjecture we may suspect, namely, if there be loathing of meat, or vomiting, without manifest fault of the Stomach, and a great fulness after little meat, weariness of the whole body, and fainting without manifest cause, if the belly be uncusomarily bound or loose, and void stinking Excrements, and sometimes bloody, without suspicion of a Dysentery. To these you may add great watchings, and if they sleep they faint, and have great sweats. And though sometimes there appear neither feaver nor pain, yet there is commonly an obscure one; of which if there appear no manifest cause, we must conjecture that it comes from this disease, especially if any of the
aforesaid

aforesaid signs be joyned therewith; as also if the *Abdomen* be violently pressed, the Patient will perceive some inward pain: it is true, that by violent compression you may cause pain in sound places; but if you perceive more pain in one part than in another, after all parts have been pressed, and when that part is always most pained, and the more by pressing, you may strongly conjecture that the imposthume is there.

If at length there come forth Matter, then the Imposthume will be manifest. Commonly it is voided by stool of divers sorts according to the disposition of the part affected, and of those adjacent.

Hence one while the Matter is pure and white in great plenty, without sense of pain; when it is sent by the Meseraick Veins into the Guts, sometimes when the Imposthume is in the thick and lowest Guts, the Matter is mixed with the Excrement, sometimes it is sent to the Reins, and cast forth by urine; sometimes being sent in great quantities between the *Peritonaeum*, and the Muscles of the *Abdomen*, it falls into the Cavity of the belly by breaking of the *Peritonaeum*, or breaks outwardly by an Imposthume, so that a great quantity of Matter flows from the Navel and sometimes Worms therewith, through the corruption of the Mesentery. And that which is sent forth by stool (which is the usual way) is sometimes white and laudable, as was said; sometimes mixed with blood or water; sometimes black blood, and stinking; sometimes other black Matter, or of divers colours. But whether this purulent Matter come from the Mesentery, Liver, Spleen, or other part, it is known by the proper signs of every part affected.

When the Imposthume is broken, and the matter floweth, it is certain that there is an Ulcer in the Mesentery, which sometimes is quickly cured, and sometimes it is of long continuance, and brings rottenness upon the whole part, and a Gangrene.

As for the Prognostick; The Imposthume of the Mesentery is dangerous; for if it continue long in the part, as it often happens, it breeds filthy rottenness, or a Gangrene, or brings the Patient into a Consumption or Dropsie. If it break and the Ulcer be not quickly cured, but gets an evil condition, it hath the like event, a Gangrene, Consumption, or Dropsie. Sometimes when the Imposthume is broken, and very stinking matter is sent into the Cavity of the Belly, the Patient dies suddenly. The Schirrhous, or hard Tumor of the Mesentery is least dangerous, and if it be new will admit of a Cure; but if it be old, it brings the Patient to a Dropsie.

The Cure of these Diseases is to be varied according to the diversity of them. And first, an Imposthume bred requires opening and Evacuation, and it must be softened with opening and purging medicines, such as are laid down in the Obstructions of the Liver and Spleen, not omitting outward Softners and Loosners, Fomentations, Cataplasms, and Liniments, which do make the matter of the Imposthume thin, and open the passages that the matter may better be voided.

After the Imposthume is opened, you must cleanse the Ulcer and heal it; for which purpose the Remedies mentioned in the Cure of the Ulcers of the Stomach, Liver, Reins, and Womb, are very good; of which a wise Physitian may take his choice according to the divers dispositions both of the Bodies, and the Diseases.

And a Schirrhous of the Mesentery is cured with the same Medicines, which are set down for the Cure of the Schirrhous or hard Swelling of the Liver and Spleen.

CHAP. IV.

Of the Disease of the Pancreas, or Sweet-bread.

THE Ancient Anatomists knew no action of the *Pancreas* or Sweet-bread, but the use only, namely, to prop the Vessels, lest they should be in danger of breaking, and to be instead of a Pillow to the Stomach, lest when it is full it should be hurt by the hardness of the *Vertebrae* or Back-bone. But the Modern Anatomists have ascribed very great action unto it; namely, the first preparation of the Chyle, and cleansing of it, so that it may be brought to the Liver more pure; which the milky Veins seem to confirm, because they are dispersed through the *Pancreas*. Besides, in the Middle of it there is an open passage which goes to the Guts, by which it is probable that the Excrements of the Chyle are purged; therefore the *Pancreas* hath its Diseases which hurt the whole Body, especially Obstructions and Tumors, as the Mesentery hath; namely, when the Chylous matter is crude and thick, and is brought to it from the Stomach, not sufficiently digested, and when it doth not freely flow from it.

Riolanus observed a Schirrhous of the *Pancreas*, in *Augustine Thuanus*, that wrote the History of his Times most elegantly in Latin; who when he had for four years, among other Symptoms a heaviness continually in his Stomach, especially when he walked or stood still, without swelling or hardness in the Hypochondria, had a *Pancreas* as big as his Liver, after he was dead, hard and Schirrhous full of knots like Pidgeons Eggs.

But because the *Pancreas* is covered with the Stomach, its Tumors are scarce to be felt; and this is

the cause, because there is no mention commonly of them, and they have been found only after death; Yet you may take a handsom Conjecture of them, from what *Riolanus* observed in *Thuanus*, namely, If there be a sense of weight or heaviness in the Stomach, and no tumor or hardness in the *Hypochondria*; and other signs of Obstructions than are mentioned in the Obstructions of the Liver, Spleen, and Mesentery. To which you may add pain, and other Syptomes of the Stomach, by reason of its nearness, shortness of breath, by reason of the compression of the *Diaphragma*; By which signs we suppose that the Lord *Audeyrins*, President of the Senate of *Gratianopolis*, had a Schirrhus of the Pancreas, and we could perceive it by touching, by putting our hand deep to the sides of the Stomach about the middle, because he was lean; and we found a hardness there, which being touched, pained him; the Story whereof is at large related in our 81. Observation, Cent. 3. And in the knowledge of the Scurvy we observed (which none that ever wrote thereof did) That in all Scurvies there is a Tumor of the Pancreas, because you may find a straitness, oppression, and weight in the region of the Stomach; And this Sign is laid down for a clear one by *Engalenus*, *Sennertus*, and others.

There are some stories in Authors, of Imposthumes found in the Pancreas, which were not discovered while the Patients lived. But by the Symptoms they have, they may be partly known; as some like those of the Schirrhus; to which you may joyn these, a lingering Fever, which is the companion of almost all inward Imposthumes, much watching, short sleep, and after it, pain, swooning, and cold sweats.

The Cure of the Obstruction, Schirrhus, and Imposthume of the Pancreas, is the same with those of the Liver, Spleen, and Mesentery. There you may fetch Medicines from the Chapters concerning them.

CHAP V.

Of the Diseases of the Caul, or Omentum.

BECAUSE the Omentum is a soft part, and fat, fit by reason of its looseness to receive Humors that come from other parts; It is subject to divers Diseases, as the Mesentery and Pancreas; And these are not described by Authors, because they can scarce be seen in living men, but only by Anatomy, as you may see in some Stories in our Observations. *Vesalius* saith that he saw in a Body opened, an Omentum so swoln that it weighed five pounds, when in its natural condition it would weigh scarce half a pound. *Roussetus* in lib. de partu *Cæsareo*, reports, That in *Paris* there was found a great Imposthume in the Omentum. *Riolanus* in his *Anthropographia*, saith, That he saw an Omentum in a Noble Youth of Nineteen years of age, full of Kernels, by which it received abundance of filthy Humors, the Mesentery and Pancreas being Imposthumated, and the Spleen almost consumed. We also saw a Schirrhus Omentum in a Fryar of *Montpelier* all over the lower part of the Belly, and four fingers thick; it was of the colour of the Spleen, so that it was probable that it was caused by Melancholick from thence, because he was of a Melancholick temper, and the passage is very often by branches of the Spleen Veins, to the Omentum; by which branches (as *Hypocrates* teacheth) the water in a Dropsie is brought from the Spleen to the Omentum, from which by degrees it distills into the Cavity of the Abdomen.

Because the swelling of the Omentum can by no means be distinguished from that of the Mesentery, therefore we cannot appoint a distinct knowledge. It is true, that the Tumors of the Omentum are easier known at the first touch, because it is immediately under the Peritonæum, but the Mesentery is deeper; but the Tumors of the Mesentery arise greater towards the Peritonæum, and are sometimes so united to it, and the Muscles of the lower Belly, that they are sent forth by suppuration through the Navil, or other external parts.

Yet this difficulty of Knowledge doth not hinder the Cure, because the same medicines serve for all Tumors that are alike in all the parts of the Belly: but the Cure is worse to be made in the Omentum, because it hath not fit way, as other parts have for the purging of its self.

The End of the Thirteenth Book.

THE
Fourteenth BOOK
 OF THE
PRACTICE
 OF
PHYSICK.

Of the Diseases of the Reins and Bladder.

The PREFACE.

THE Reins and Bladder have divers and all sorts of Diseases, both Similary, Organical, and common; from which divers Symptoms arise, both in the actions hurt, and also in the fault of the Evacuations. We will comprehend the chief in Nine Chapters. The First shall be of the Stone in the Kidenys, and the pain of the Reins, called Dolor Nephriticus. The Second, Of the Stone in the Bladder. The Third, Of the Inflammation of the Reins and Bladder. The Fourth, Of Pissing of Blood. The Fifth, Of the Ulcer of the Reins and Bladder. The Sixth, Of Diabetes, or Involuntary pissing. The Seventh, Of the not holding of the Water. The Eight of Iscuria, or stoppage of the Water and Strangury. The Ninth, Of Dyluria, or scalding of the Urine.

CHAP I.

Of the Stone in the Kidneys, and pain in the Reins, called Dolor Nephriticus.

That is called *Dolor Nephriticus* which doth afflict the Uretors or Reins. the common people call it the Stone-Cholick, because of the great affinity it hath with the Cholick, so that it is hard to distinguish them, as you shall see in the Diagnostick, or signs.

CAUSES. The Cause of this Pain is manifold, but chiefly the Stone or thick flegm. A Stone continuing in the Reins, causeth either little or no pain, because the substance of the Reins hath little Sense: but if it fall upon the head of the Uretors, or get into the passage and distend it, and cannot be brought to the Bladder by reason of its greatness, then it causeth grievous pain. But gross flegm fastened upon the Uretors, doth distend them, and causeth the Nephritical pain.

The less ordinary Causes are, thick blood fixed in the Uretors, or thick Matter coming from the Kidneys, or other parts; sometimes wind gets into the Cavity, and causeth great pain.

There are many Controversies in Authors about the Stone, which is the chief and usual cause of the pain of the Reins, which we shall not accurately declare, but only touch those things which are necessary to declare its Nature and Causes.

And first, they doubt under what kind of Disease they should reckon the stone; *Galen* placeth it among the Diseases in number of those things which are wholly besides Nature, as also the Worms. For though a Disease in number doth properly respect living parts, whose number being increased or diminished maketh an organical Disease; yet those things which are preternaturally added to the number of those things of which the Body is compounded, ought to be referred to the Diseases in number, so that sometimes the bare qualities are referred to Diseases in number; when they do immediately hurt the action, as yellowness in the Eye of one that hath the jaundice, a noise in the Ears and a bitter taste upon the Tongue.

Oftentimes the Stone is reckoned among causes of Diseases, as it breeds Obstruction or Distention.

It may also be placed among the Symptoms, viz. those things are voided or retained; for if it be retained in the Kidneys, Reins or Bladder, when it should be voided, it is to be reckoned among those things that are preternaturally retained: but when it is voided, it is to be reckoned among those that are voided wholly against Nature.

But there is more difficulty about the cause of the stone both material and efficient. *Galen* and his posterity thought that Flegm was the material cause of the Stone, which is thick and slimy, fit to be hardened, (as they say of late) fæculent, slimy and Tartarous, and heat the efficient, which dryeth and hardeneth that matter, and at length turneth it into a stone. Which Doctrine is opposed with strong Reasons.

First, If it should come of a slimy and thick flegm, then it would often be bred in the Brain and the Stomach, in which such flegm doth chiefly abound. Neither will it suffice to say that there is not sufficient heat in those parts to harden it, because according to the Doctrine of *Hippocrates* and *Galen*, a gentle heat by a continual action is sufficient to congeal; and hence is the reason why old men do more often breed the Stone, when young men have hotter Kidneys; because the matter of the Stone lies longer in old mens Reins by reason of the weakness of the expulsive Faculty, and so it's longer concocted by the heat, and at length hardened.

Secondly, From *Aristotle*, 2. meteor. cap. 4. things which grow together by heat, are melted by moisture, as Clay. But the Stone is never dissolved with Water. Neither doth it hinder to say that a strong heat makes such a Concretion or growing together, that it cannot be dissolved by moisture, as in Bricks. For first, in Man there is not so great a heat; then the not dissolving of Bricks with Water is not because of the strong heat they had, but rather from the disposition of the Clay; for Clay made of common Earth, although it be baked in a Furnace, will never be hard as a Brick, but always be dissolved with moisture.

Thirdly, From *Aristotle* in the place mentioned, the heat that makes concretion must be dry. But there is a continual flowing of moisture into the Reins and Bladder, therefore such a drying and hardening cannot be in those parts.

Fourthly, Stones breed in Rivers and Fountains, in which there is no heat, and in some Dens and Holes that are very cold, the water that falls turns into a stone; from whence strange shapes do arise. Therefore we must find another cause besides heat, and another Matter besides clammy and glutinous Flegm.

Fifthly, Flegm made hard is like Chalk, and is brittle, as you may see in the knots of the Joynts. But some stones are like flints, which they cannot be from Flegm: nor is there so much heat in mans Body to make it so.

This slimy flegm hath deceived the Physicians of all Ages, which is found in the Urine of many Patients, and they thought it to be the immediate cause; but they were out. For first, In the stone of the Kidneys such Urines are seldom made, but often in the Stone of the Bladder. But if this were the matter of the stone, it will be alike in both. Therefore this Matter depends especially upon the proper Disease of the Bladder, for it is an Excrement of it distempered. The Disease of the Bladder is this; we have seen in the Bodies of them who have died of the stone in the Bladder, and who voided much of that matter, that the Bladder grew fleshy, as thick as ones Finger or Thumb, so that it filled the whole Cavity, and lay next the stone, till by stopping the Urine it killed the Patient. But in those who made thin clear Urine, their Bladder was not altered. The reason of these accidents are taken out of *Hyp. Aph. 66. Sect. 3.* If there be no Tumor in great and evil wounds, it is evil. And *Galen* gives the Reason, because there is a suspicion that the Humors which should come by reason of pain to the wound, are gone to some noble part. Moreover, it is Natural to all parts; as *Galen lib. de diff. febr. cap. 11.* that they which are stronger, send that which hurteth them to the weaker, nor do they cease so doing till it come to the weakest. So when the part wounded is very weak, and therefore fit to receive Humors, if they come not thither, it is a sign that other parts are very weak; which

which cannot send, and that others are weaker than the wounded, to which the Humors are carried. Not only the bad Humors are carried to the wound, but also good blood, which Nature sends to refresh it. All these things are in the bladder that hath the Stone. A great uneven Stone, or sharp, hurts the Tunicle of the bladder; hence comes pain and weakness. And Nature to help it, sends more than usual blood, and the stronger parts send their superfluities. These the Bladder concocteth as much as may be into its self, and so groweth thicker. But when it cannot take in all, especially the evil humors, hence come many foul Excrements, which from the nature of the part turn so flegmatick. But in them who have clear Urine, either the Stone hurteth not, which causeth the attraction, or some other parts are weaker than the bladder, to which the Humors flow.

But because this Doctrine doth destroy an old Opinion, we will confirm it by a clear Example of the Womb. The Womb is Membranous, as the bladder: but in Women with Child it is fleshy and thick; so that in the last months it is two Fingers thick; because Nature all the time sends much blood to it to nourish the Child; which when the Child doth not wholly consume, some part of it is taken into the Womb, and so it encreaseth. The same is in the Bladder, though preternaturally (which in the Womb is Natural) that when much blood comes to it, it converts it into its self, & grows thicker. But if without being with Child, the Womb be distempered and made weak, then humors superfluous from other parts come to it, which when they cannot be taken into its substance, turn to the Whites. And that Flux is a proper Excrement of the Womb, as the Flegm is of the Bladder. The same thing is in the Reins, though not so often; as when by a Stone in them there is pain and weakness, Nature sends much blood and Humors to them, which when they cannot be turned into the substance of the part, they are turned into a slimy Excrement, which are voided in abundance; and this vulgar Physicians take for matter or Pus, which is only Flegm, or mixed with a little Pus, as when by the grating of the Stone there is an Ulcer.

Some Modern Writers being converted with the aforesaid Reasons, have made a Juyce, which will turn into a Stone, to be the material cause of the Stone called *Succus Lapidescens*; and the efficient to be *Spiritus Lapidescens*; they call the former a certain Humor naturally proper to turn into a stone: And this they desire to prove by the breeding of stones in the Earth, which are by many Authors said to come of Water, and things cast thereinto to be hardened presently; some Waters in Caves to be made stones, and some part of the Wine groweth to the Vessel, called Tartar; and Urines that are clear, when they are cold grow to the glass. And although the peculiar fitness of the Matter to be thus turned, is not sufficiently known; yet some say they have found it out, saying, that it is of salt mixed with Earth. Some Salts do grow hard in the Sun, and are easily dissolved in Water; and if they be joyned with Earth like themselves, by the force of the efficient cause they may be stones. So we see in Wines turned to Tartar: but Tartar calcined goes all into Salt, which shews that it is chiefly made of Salt. So in the Urines that have much Salt, especially in those which have slimy matter, we see a Tartarous Matter cleaving to the glass. This salt Matter, which is mixed with the Urine, comes from Meat and Drink so affected, and they are cast forth in a sound Body, nor are they retained in the Reins when the efficient Cause is absent.

We have called the efficient Cause, *Spiritus Lapidificum*, or a Spirit that makes a stone. *Fernelius* calls it a stony disposition, which is in the Reins commonly Hereditarily. But we like the foremost Title best. For first, some have stones which have them not Hereditarily, if they eat or drink things that breed them, because in them there is both the Material and Efficient Cause; therefore the Hermites impute the Efficient Cause of Stones to their proper seeds, which in a Matter rightly disposed produce their form.

Moreover, many Histories shew that Stones come from a Stone-making Spirit, of Men, Beasts, and other things turned into Stones by a Breath or Spirit out of the Earth. So in *Aventinus, lib. 7. Annal. Bavar. An. 1343*. that more than fifty Country-men and their Cows, were turned into stones. And so says *Ortelius* in his Description of *Russia*, of whole Herds of Cattel. So also *Camerarius* reports of a South Wind that bloweth sometimes of the year in the Province of *Chilo* in *Armenia*, by the blasts whereof whole Troops of Horse are suddenly turned into Statues of Stone, and stand in the same rank and file in which they were.

This Stone-making Spirit is not only in the Reins of those which have this Disease, but also in the Juyce of those things that are eaten and drunk separated from them; so that sometimes both come together. Hence it is, that some that eat any Meats that incline to the breeding of the Stone, do presently produce it, because there is Stone-breeding disposition, or Stone-making Spirits in their Reins. But if their Reins be free from this Spirit, such meat will not breed Stones, because their Stone-making force is not strong enough without the assistance of the Reins to convert that matter into Stone. On the contrary, if the Stone-making power be greater in the meats that are taken, and they are often eaten, Stones will be bred, although the Kidneys have no such disposition or Stone-making spirit. So we see in divers places, where the Water or Wine are full of Stone-making juyce; the

the greatest part of the Inhabitants are subject to the stone; as we may see in *Ovid* concerning the *Thracians*, in these Verses:

*The Thacian Waters all things Marble make,
Their Guts turn Stone that inwardly them take.*

And on the contrary, if there be that stone-making vertue in the Kidneys, it makes stones of any nourishment, though never so wholesome. So about three years since, I saw one who for three or four months voided more than twelve little stones every day by Urine, when all that while he kept his bed very sick, and fed only upon Broth and Panadoes.

The Antecedent and Primary Cause, either respect the supply of matter for the stone, or the constitution of the Reins, by reason whereof the stones do more easily grow.

The Stomach, Liver, Spleen and Reins, do much cause the breeding and heaping up of matter for the stone; chiefly the stomach, if it do not well concoct, there is crude Chyle brought to the Liver, and from thence impure and Earthy Juices are sent with the Serum or Water into the Reins. A hot Liver doth bake the Chylous matter, and makes it fit to breed a stone; as also being too cold it makes crude blood most fit for the same purpose. A Spleen weak or stopped, or otherwise disturbed, doth not sufficiently purge the drossie part of the blood, but sends part of it to the Reins, which will more easily be turned into a stone. And lastly, the Reins beside their conjunct cause, which is a stony disposition, are an antecedent Cause in two respects, Namely, in respect of their Temper, and of their Form. In regard of their hot Temper, they more violently draw the Stone-making Matter, and thicken it more; but in respect of their Form, they are an Antecedent Cause, if the Emulgent veins are more loose, so that the thick and Tartarous matter may be more easily received into the Reins; or if the Uretors and those Vessels that send the serous matter to them be narrow; so that the thick matter hath not a free passage, but is retained in the Reins.

Thick and slimy Nourishment doth chiefly afford matter for the stone; such as are full of Salt, as Beef, Pork, Hares, Geese, or things dried in the smoak, or powdered, as Salt-fish, Shell-fish, Eeles, Pulle, Cheefe, and all Milk meats, hard Eggs, Chesnuts, Pears, Quinces, Medlars, unleavened Bread, and Rice: thick Wine, sharp or black, or new Wine not purged, standing Waters, and such as are full of Stone-breeding Juice.

To these add very hot meats, as Pepper, Ginger, Garlick, Onions, old strong Wine, which makes the Liver and Reins too hot, too strong Diureticks, which carry the matter that will cause the disease, too violently to the Reins; thick Garments, Down Beds, Baths, inordinate Lechery, which is a great Enemy to the Reins, violent exercise, especially after meat, too much feeding, or long fasting, great anger, and other passions.

SIGNS. The Signs of the Stone taken by themselves are equivocal, and common to other Diseases: but if you consider them all together, you may have certain knowledge by them.

The first Sign is a fixed pain about the Loyns, sometimes heavy when the Stone is fastened to the substance; which being of a dull sense hath a weighty pain; but as often as the stone gets into the Head of the Uretors, then it causeth a sharp and pricking pain, and this is called the Nephritical pain, or pain of the Reins, and it continueth while the stone is there; neither will it cease to torment the Patient till the stone get into the Cavity of the Bladder, or turn back into the hollow of the Kidneys.

The Second sign is bloody Urine, which comes from the opening or corrosion of the Veins which are dispersed into the substance of the Reins, which comes from the rubbing of the Stone that sticks in the substance; but if there be but little blood voided, being mixed with Urine, it loseth its colour, so that the Urine looks like a Lye. This Sign is not always, but sometimes depends upon other causes. But when it doth appear, it is one of the chief which distinguisheth the Stone from the Cholick. It useth to be caused by riding, much walking, and other violent exercise; for then the stone if it be rough and snaggy, being removed from its place, doth cut and tear the tender Flesh of the Kidneys.

The Third Sign is thin Urine, water-like, and little, in the beginning of the fit; after which sometimes followeth a total stoppage, if both Uretors are stopped: but when the fit is past, and the stone that was fixed in the Uretors is fallen into the Bladder, there comes forth much thick troubled Urine, with a sandy Sediment.

The Fourth Sign is often voiding of Sand and stones. Concerning voiding of a Stone, it is evident, That if the Patient voided any formerly, though never so small, when he had a fit, it is most certain that the Disease is the Stone. But concerning Sand we cannot speak so infallibly; for we may see many all their life time void Gravel, and never be troubled with the Stone; for sand comes often from adustion of Humors in the Liver and Veins, and it sticks to the sides of the Urinal, and goes not to the bottom, as that which comes from the Reins. Besides, if you rub it between your Fingers, it dissolveth, and is like Salt, when the other will not yield to the Fingers, and will not dissolve. And finally, because this Sand is salt, it is dissolved in hot Urine, nor will it appear while the

Urine

Urine is so ; but when it is cold it grows together to the sides of the Urinal not unlike the Cryстал of Tartar ; which being dissolved in warm water, when it grows cold, congealeth and sticks to the sides of the Glas ; for the nature of them both is very like.

The Fifth Sign is if a stone be voided, and this is most certain: For if any former Sign, though equivocal do appear, and a stone be voided, you may be certain of this Disease.

The Sixth Sign is a numbness of the Thigh on the same side that the Back is pained of : for the stone bring great doth oppress the Nerve which is inserted into the Muscles of the Loyns under the Reins, called by the Anatomists *Psenas*, and those Muscles go to the Hip for its motion, such a numbness is perceived by sitting upon the Thigh, through the compression ; or in the Arm by long leaning thereon.

The Seventh Sign is the drawing in of one stone, on that side where the pain is : For the Kidneys and Uretors being provoked with the greatness of the pain, do vehemently contract themselves, and then the Spermatical Vessels and all the parts adjacent are also contracted, and these Vessels do raise up the stone which is joyned to them, so that it seems sometimes to be fixed to the Groyn. And this retraction or drawing in of part, reacheth to the Bladder and Guts : For in great pain the Belly is bound, and Urine stopped ; so that then Purges will not work by reason they are hindered by that Contraction.

The Eighth Sign is loathing and vomiting by the connexion of the Kidneys with the Stomach, by the *Membrane* that comes from the *Peritonaum*, and by the Nerve of the sixth Conjugation, two branches whereof reach from the Stomach to the inward Tunicle of the Kidneys. Therefore when those sensible parts in the Kidneys are pulled, the Stomach consenting is stirred up to exclude that which hurteth ; and first it sends out Flegm, then yellow Choler, after green, if the evil continue, because through long pain and watching the blood is altered in the Veins, and that part which is most disposed for it, is turned into green Choler.

Finally, The Nephritical pain is so like the Cholick, that *Galen* himself was deceived in the distinguishing of them, as we shewed in the *Diagnosis* or knowledge of the Cholick. where also we laid down signs by which we may distinguish them, which we shall not need to repeat.

The Signs aforementioned are equivocal, and one of them can scarce give a certain knowledge. Some Authors mention others, which are more equivocal and uncertain, but joyned with others they help the Knowledge of the Disease, therefore it will not be amiss to mention them.

Hyp. Aph. 34. Sect. 7. saith, *They who have bubbles in their Urine, have an old Disease in the Reins.* For these bubbles come from thick Humors full of gross Vapors which are either bred in the Reins, or sent from other parts to them, that matter is proper to breed the stone, and cannot be presently cured, therefore the Disease is long. *Galen* in his Comment upon this Aphorism, saith, that the mouths of the Arteries which come to the Reins are opened by the sharpness of the Urine, and thence come a Spirit which being mixed with the urine, maketh bubbles. But it is not probable that such a gross Spirit that will remain so long, should come from the Arteries, and Urine being cold, may long time so continue, as we see many bubbles many hours swimming thereupon. And also when the Arteries are opened by the sharpness of the urine, blood will also come forth ; And the mouths of the Veins having thin Skins, would be more easily opened, and so there would be also blood mixed with the bubbles.

Hippocrates also *Aph. 76. Sect. 4.* saith, *They who void little bits of flesh, and things like hairs, with a thick Urine, doth it from the Reins.* The bits of flesh come from the Ulcer of the Reins, of which we shall speak hereafter. But these threds or hairs are said by *Galen*, in his Commentaries, to come from thick and crude flegm made long and round by the extraordinary heat of the Reins. Yet *Galen* confesseth, *6. loc. aff. cap. 3.* that after a long search he was ignorant of the cause of their length. *Avicen* saith, that these threds grow long in the Vessels of the Reins, or others ; for in regard these are taken away by Diureticks, and the Patients acknowledg pain in the Reins, it is credible that they receive their form from thence. *Attuarius* doth directly say that they come from the Uretors: For when the Reins abound with flegm, it goes with the urine in the Uretors, and sticking to them, and growing thick by heat, it gets a long shape like a thred or hair. But *Fornelius* writes, that those hairs come from the Parastates or Kernels, from his Observation, in which they grow long like hairs from the matter of the Seed, which by force of the Disease flowing down by degrees, grows thick by heat, and that they appear much in those who have lately had a filthy Gonorrhæa, and in those Women who have the Whites, or a foul Womb, and in that urine which they make next after they have known a man. Others suppose, that those thick Humors of which those filaments or hairs are made, are first bred in the Veins, but take their form in the narrow passages of the Reins, through which, as through a sieve, they turn small, and after they descend into the Uretors, in which they grow dryer till they are sent into the Bladder, neither can they be broken by reason of their roughness. Whatsoever the cause is, since the best Authors do agree that these hairs breed of thick flesh in the Kidneys,

or come to them from other parts, it is certain that they may turn into a stone, if there be an efficient cause fit to produce it. And therefore this may be a probable sign of the Stone.

PROGNOSTICK. As for the Prognostick The Stone of the Kidneys is very dangerous, for it useth to bring great evils; as Inflammation, Exulceration, great Pains, Watchings dejection of strength, Feavers, stopping of the Urine, and the like dangerous Symptomes.

If this Disease be Hereditary coming from the Parents, it is incurable.

And because *Hypocrates* saith, That the Diseases of the Reins are hard to be cured in old men, *Aph. 6. Sect. 6.* The Stone of the Kidneys in old men is difficult, if not incurable.

If the pain of the Kidneys continue many days, and cannot be cured with any Medicines. there is danger of death, and it is near at hand when they are cold externally, and have a cold sweat in the face. Urines that are first thin, and after thick, and have sand at the bottom, do signifie that the fit is towards an end,

A Stone joyned with an Ulcer in the Kidneys is incurable: for those things which break the stone, do exasperate the Ulcer.

CURE. The Cure of the pain of the Kidneys and stone sticking in them, or in the Ureters, is by enlarging of the passages, and relaxing them by throwing forth the stone, and any other thing that hurts them, by removing or taking away of the antecedent cause, and by taking away the pain. Which you may do with these Medicines.

Take of *Marsh-mallow* and *Lilly Roots*, of each one ounce; *Mallows*, *Violets*, *Pellitory*, *Bear-foot*, of each one handful; *Linseed* and *Fenugreek seed*, of each half an ounce; fat *Figs*, six; *Chamomel* and *Melilot Flowers* of each one pugil: boyl them to a pint. Dissolve in the straining, *Cassia* and *Diacatholicon*, of each six drams; Oyl of *Lillies* and *Violets*, of each one ounce and an half; fresh Oyl two ounces: make a Clyster to be given presently.

Afterwards open the Liver-Vein of the right or left Arm, and take away eight or nine ounces of blood, according to the strength and fulness of the Patient. Phlebotomy is very necessary to prevent Inflammation, which useth to come from continuance of pain.

After blood-letting, give this Clyster:

Take of the flowers of *Chamomel*, and *Melilot*, the tops of *Dill*, *Pellitory* of the wall and *Rue*, of each half a handful; *Annis*, *Fennel*, and *Cummin seeds*, of each half an ounce. Make a decoction to one pint; in which dissolve *Diaphœnicon* half an ounce; Turpentine dissolved with the Yolk of an Egg one ounce; Oyl of *Dill* and *Scorpions*, of each three ounces. Make a Clyster.

To mollifie more, and assuage the pain after your Laxative, you may make one of Oyl thus:

Take of Oyl of *Dill* and of *Chamomel*, of each half a pound; Oyl of sweet *Almonds* two ounces; Oyl of *Rue* one ounce. Mix them for a Clyster.

At the same time apply a Fomentation to the part pained, made of the Decoction of the first Clyster, with *Annis* seeds and *Fennel* seeds. Oyl and Water, with Spunges.

Take of Oyl of *Scorpions* compounded two ounces; fresh *Butter*, *Hens Grease*, Oyl of *Lillies*, and of sweet *Almonds*, of each one ounce: Make a Liniment to be used after the Fomentation.

Or this Cataplasin:

Take of *Mallows* and *Pellitory*, of each two handfuls; Parsly with the Roots one handful; *Radish Roots* two ounces: boyl them soft and beat them; then add of *Onions* roasted, two; Oyl of *Lillies*, bitter *Almonds*, and sweet *Butter*, of each two ounces. Make a Cataplasin, which you must put between two thin linnen cloaths, and apply warm to the Belly, according to the length of the Ureters, and beat it as often as it grows cold.

You may also apply one either made of *Pellitory* alone, or with Eggs fryed in a Pan with Oyl of *Chamomel*, bitter *Almonds*, and *Scorpions* in a cloth.

Or make it of *Onions* shred and fryed with *Hogs Grease*, or the Oyls aforesaid, with five or six warm Eggs applied.

And because in this Disease there is abundance of crude Humors, after Clysters (which must still be repeated as the pain cometh) you may give a purging Medicine, especially in form of a Bolus, lest it be easily vomited up, because these Patients are commonly squeazy stomachs.

Take of *Cassia* new drawn with Oyl of sweet *Almonds* one ounce; *Diaphœnicon* three drams; powder of *Rhubarb* one dram: with the powder of *Liquoris* and *Tragacanth*, make a Bolus.

If the Patient cannot swallow a Bolus, dissolve purging things in the Decoction of *Mallows*.

But you must diligently observe, that you must not give a purging Medicine before the pain be allayed. For when the pain is great, a strong Purge seldom works, because then all the parts contract themselves, and refuse to help the Medicine.

But at that time you may give a Vomit, by which the plenty of Humors may be abated, and a revulsion is made from the part affected; and often Nature of her self, when the pain is urgent, doth endeavour the same, and after it finds ease.

A gentle Vomit which will also assuage pain, may be made thus:

Take of warm Water four ounces, Sallet Oyl one ounce, simple Syrrup of Vinegar one ounce and an half. Make a Vomit.

If you will have a stronger, you must use Salt of Vitriol, or *Mercurius vita*, with which *Angelus Sala* saith, that he hath often cured this disease.

Before and after purging, you must give at the mouth those things which open the passages, and abate the pain: for which purpose the Syrrup of Marshmallows prescribed by *Fernelius*, often given is excellent. But because it is not always ready in the Shops, you may make it simply thus:

Take of Marsh-mallows three ounces, Boyl them to a pint: dissolve in the straining half a pound of Sugar. Let him take it often.

This following Julep given often, is good to mollifie the passages.

Take of Barley one pugil; gray Pease half a pugil; Mallow and Marshmallow seeds, of each two drams; the four great cold seeds, of each one dram; fat Figs eight; Sebestens six; Liquoris half an ounce; boyl them to a pint and an half. Dissolve in the straining Syrrup of Maiden-hair, four ounces. Give it at four draughts twice or thrice in a day.

Give for his ordinary drink, a decoction of Marsh-mallow Roots one ounce and an half; Barley two pugils; Liquoris six drams, in five pints of Water, to a pint.

Or make Broths of Mallows, Marsh-mallows and gray Pease with much Butter, and a little Salt: or boyl the same in fat broth.

Or give Emulsions made of the four great cold seeds.

But Oyl of sweet Almonds above all medicines doth mollifie and relax the Passages, and assuageth pain, if it be new drawn: give three or four ounces by it self, or with Whitewine, or a Decoction of Marsh-mallows, Liquoris and gray Pease; or make a Potion of equal parts of Oyl of sweet and bitter Almonds, because bitter Almonds are good also to expel the Stone.

The day after you have opened the Arm Vein, you may open the Ham or Ankle Vein on the same side; for that will derive the Humor, and the Patients find much ease thereby. Which Rule is given us by *Hypocrates*, 6. Epid. Part 1. Aph. 6. and by *Aetius*, lib. 11. cap. 5.

And if the disease last long, you may open the Hemorrhoids, according to *Hyp. Aph. 11. Sect. 6* who saith, That it is good for Melancholick men, and such as have the stone, to have their Hemorrhoids bleed. From the same branch of the Spleen there are Veins which go to the Reins, Bladder and Hemorrhoids.

If the pain be not assuaged by Fomentations, Liniments and Cataplasms aforesaid, put him into a Bath made of the Emollient Decoction, with Whitewine added, for it assuageth pain, at least while the Patients sits therein; but you must not use it much, lest it take away strength.

And lastly, When the pain is very great with Watching and Weakness, you must give Narcoticks, and put two drams of *Philonium Romanum*, or five or six grains of Laudanum in a Clyster, or three or four grains at the mouth, or one ounce of Syrrup of Poppies in a convenient Julep.

After these Tropicks have been used, in a long pain it is good to apply a Plaister of Melilot, Malaxed with Oyl of Chamomel and Dill.

This pain useth to be Cured with some of these medicines, and with repeating Purges (if they be needful) or giving Cassia often. But if after the use of them it continue, it is most certain that they are great stones which stop the Uretors, which must be sent out by Diureticks, which will break them. But you must first begin with the mildest, lest by strong and sharp you inflame the blood and the Reins. And you must consider the habit of the body: For a full body will endure things that do more pierce and make thin; but a slender, less.

There are abundance of this kind in Authors, that diminish, break and expel the stone, but we will give you only the most choyce.

Take of Smallage, Parsley, Butchers Broom, Couch grass and Sparagus Roots, of each one ounce; Mallow and Marsh-mallow Roots, of each half an ounce; Pellitory of the Wall two handfuls; Annis, Fennel, Dill, Caraway, Carrot, Amye, Carthamus, Cummin, Rue seeds, and Bay-berries, of each two drams; Chamomel, Melilot, Dill and French Lavender, of each one pugil: boyl them in Whitewine to the consumption of half. Dissolve in the straining, being one pint, fresh Butter four ounces, Honey of Roses two ounces, red Sugar one ounce, Benedicta Laxativa half an ounce; one Yelk of an Egg; Oyl of Nuts, Lin seed and Dill, of each three ounces: mix them for a Clyster, which let him keep two hours, if he can.

Take of Strawberry Water and Saxifrage Water, of each two ounces; the best Whitewine six ounces, Oyl of sweet Almonds two ounces, Spirit of Vitriol one dram: mix them for three doses. Give the first as hot as may be endured; after six hours give the second as the former: and if this will not do (as it seldom misseth) let him take the third.

You may sooner make a Julep of Saxifrage Water and Syrrup of Violets, with fifteen or twenty drops of Spirit of Vitriol,

Take of the Juyce of Pelitory drawn without fire three ounces: Juyce of Lemons and Oyl of sweet Almonds drawn without fire, of each one ounce and an half. Mix them for a Julep to be given three or four times morning and evening. Or,

Take of the Juyce of Lemons and White Wine, of each two ounces; Sugar Candy half a dram. Take it instead of the Julep.

Concerning Juyce of Lemons you must note, That it must be used warily, for being given often and much, it maketh Exulcerations in the Stomach, from whence cometh the Flux called *Lienteria*.

These Pills following are excellent.

Take of Sal Prunellæ, Crystal of Tartar, Salt of Ivy Berries, and of Water Cresses, of each equal parts; with some proper Syrrup or Turpentine, make a Mass of Pills; of which give one dram every morning.

This following Powder of *Quercetan* is much commended:

Take of the inward skin of Hens Gizzards, and their white Dung, of each half an ounce; the inward skins of Egg shells powdered, two ounces and an half; Rupture-wort and Cinnamon, of each four scruples; Medlar stones two drams; Annis and Fennel seeds, of each one ounce: make them into a very fine Powder, and give half a dram or a dram thereof in White Wine.

The Ashes of burnt Egg shells from half a dram to an ounce given in White Wine, do powerfully expel the Stone that sticks in the passages of the Uretors.

Goats blood prepared is commended of all Authors, old and modern, as the best Medicine to dissolve the Stone. The Dose is from half a dram to a dram.

The Water of Goats Blood distilled in a Glass in *Balneo Mariæ*, doth wonders. But you must feed the Goat one month with Saxifrage, burnt Juniper berries, Parsly and other Diureticks, without drink.

Hartman commends the urine of a Goat, in these words, as a wonderful Remedy; In the stoppage of the Reins by a great stone, or when the Uretors and Bladder are stopped by Stones sent thither, so that one drop cannot be voided, it is excellent if you take the Urine of a Goat taken out with his Bladder while he is yet alive, and drink: and apply his Panch and Guts to the Belly and Privities, for so the Stone will be presently consumed without hurt to Vessels, and the Patient Cured.

The Powder of Millepedum or Sows is excellent to dissolve the Stone, and we will teach the use thereof in the Stone in the bladder.

Also the infusion of the same in White Wine taken and long continued, is effectual to the same purpose.

There is a Wine of Winter-Cherries commended of *Arnoldus Villanovanus*, and they say it doth so bring forth the matter of the Stone, that you may take it up in your hand. And this is done by beating the Winter-Cherries in White Wine, and giving the strained Liquor.

These also following are very good:

Take of Lapis Judaicus, or Jews Stone, Pulvis Lithontribi Justini, of each one dram; Peach Kernels, Gum Tragacanth and Cherry-stone Kernels, of each half a dram: bring them to a Powder, and with Turpentine make a Bolus, which give in three Doses morning and evening.

Take of Horse Radish scraped two ounces, White Wine four ounces: steep them a few hours; then strain them strongly. Let the Patient take the straining twice or thrice, at convenient hours.

Savin Water given to an ounce or two, doth purge Stones and gravel.

Take of Mallow Roots cleansed in Whitewine, six ounces; Burdock and Couch-grass Roots, of each four ounces; Asarum, Parsley, Valerian and Fennel Roots bruised, of each two ounces; Maiden hair, Saxifrage, Bärnet, Goldenrod and Betony, of each four handfuls: Basil, Burdock, Carduus, Mountain Oyster seeds, Medlar-stones, and Peach stones, of each one ounce; Gromwell seeds two ounces; Lapidis Lyncis, and Judaici, of each one ounce and an half; Turpentine three ounces, Goats Blood prepared two ounces and an half; Saffron two drams; Whitewine four pints: bruise them that must, and mix them all; distil them in *Balneo Mariæ*. Take two ounces of this Water three hours before Supper, drinking after four ounces of Whitewine.

Take of the Bark of the Roots of Carduus Alpinus one ounce, Liquoris two drams: Boyl them to six ounces: let them take the straining many days. It doth wonderfully cleanse the Stone and Gravel.

Take four pounds of shred Onions that are white; two pound of Sugar, one pint and an half of white wine: distil them in *Balneo Mariæ* till they are dry; Give every morning two or three ounces for many days together.

The Ashes of a Scorpion is commended by Practitioners, if you take one Scruple at a time, with Water of Couch-grass, Pellitory or Whitewine; but is seldom used.

Martholus his Oyl of Scorpions is more in use; a dram taken at the Mouth with the aforesaid Liquors, doth excellently further the voiding of the Stone.

The Chymists brag much of their Salts; among which the best is Salt of Bean Cods or Stalks, half a dram whe reof with Whitewine works very well. And also Tartar Vitriolate in the same quantity. They commend also Spirit of Salt, Vitriol, *Mercurius Dulcis*, with their proper Vehicles or Liquors.

Outwardly you may help the stone, if you continually chafe the Reins and Uretors with warm hands anointed with Oyl of Scorpions.

Also many Cupping-glasses from the Kidney affected, downwards, applyed without Scarrification.

Then anoint the part with *Mathiolus* his Oyl of Scorpions; to which add a little Powder of *Cartharides*. Or make a Liniment of Oyl of Wax, Brick and Scorpions, of each equal parts; it is very piercing and good, if you fear no inflammation of the Reins.

You must observe in the use of Medicines, to break and expel the stone, That they must not be used twice or thrice, but often, till the passages stopt are open; and while you give them, you must cherish the Reins and Bladder with Baths, Fomentations, Oyntments and Cataplasms, that the other may work the better. And you must give thin Liquor, as Whitewine often; and use inward Emollients, Loosners and Openers; to enlarge the Passages, and temper the sharpness of other Medicines.

By these Remedies the pain of the Reins is cured, and Stone dissolved and expelled. But because they who are disposed to this Disease, and Cured, do often relapse, therefore we must appoint some Preservatives that we may hinder it as much as may be.

And first, if there be a Plethora or fulness, or the Reins and Liver hot, it is good to open a Vein Spring and Fall, a Clyster or gentle Purge being first given: And then to purge the Matter away which is proper to breed the Stone, before it come to the Kidneys, which you may do by a Vomit twice or thrice in a month, to those which easily vomit.

Or you may give a Purge by a Bolus of Cassia, *Diaphœnicon* and Rhubarb, prescribed in the Cure, or some other convenient Medicine every month; or two or three, according to the habit of the Patient, and the plenty of humors, and that in the last quarter of the Moon.

Or if there be evil humors, they must be purged Spring and Fall with a convenient Apozeme: for by that, not only the Antecedent and remote cause will be taken away: but also some part of the conjunct cause; as also the Obstructions of the Bowels, which usually accompany this Disease, will be taken away, if you mix therein cleansing and cutting Medicines.

Or instead of the Apozeme, you may use the Decoction of an old Cock made thus:

Take of Polypody of the Oak, *Carthamus* seeds, of each one ounce an and half: Thyme and Epithimum, of each one pugil; Cummin, Annis, Dill, Fennel, Caraway and Carduus seeds, of each two drams; Senna one ounce and an half, Gummy Turbith half an ounce; Cinnamon one dram; Crystal of Tartar two drams: beat them and mix them together, and put them into the Belly of an old Cock; and then boyl them till the flesh come from his bones. Let him take the Broth being strained, at four mornings draughts.

Or you may give this following Powder commended by *Solenander*, by the use whereof he testifieth that he cured many of the pain of the Reins, giving it in the fit.

Take of Senna two ounces, the best Rhubarb half a dram, Turbith one dram and an half, *Hermadaits* two scruples, Polypody half a dram; Cinnamon, Ginger, Gromwell seeds, Saxifrage, Broom seeds, of each one dram; powder them finely. Give one dram, or a dram and an half in white or thin red Wine once in a month.

Carolus Piso doth extol this following Powder:

Take of Annis, Fennel, Caraway and Cummin seeds, of each one dram; Coriander prepared half a dram; Liquoris and Burdock seeds, of each one dram and an half; Cinnamon and Galangal, of each one scruple; Gromwell and Broom seeds, of each half a dram; Diatragacanth frigid two drams: Diagridium one scruple; Senna as much as all the rest: make a Powder. The Dose is one dram, with the Broth of gray Pease.

Or you may make a Magistral Syrrup thus:

Take of Sparagus Couch-grass, Marshmallow, Knee-holin, and Parsley Roots, of each one ounce, Betony, Burnet, Saxifrage, Pellitory of the Wall, and Maiden hair, of each one handful; Bazil, Parsley, Gromwel, Broom and Burdock, and Mountain Osier seeds, of each two drams; Liquoris, Raisins and Polypody of the Oak of each one ounce: Make a Decoction to one pint and an half. Infuse in the straining four ounces of Senna; white Agarick two ounces, Ginger two scruples: boyl them a little, and strain them; after dissolve in it one pound of white Sugar. Boyl it up to a Syrrup, and give thereof two ounces once or twice in a month with the Decoction of Barley, Couch grass and Gray Pease.

Or if the Body be very foul, make Pills of Aloes and Agarick, and give two or three of them every other day before Dinner.

After Purging, give Diureticks to bring forth the slimy matter, and Sand that is about the Uretors.

For this end, make Decoctions of the Diureticks mentioned in the Magistral Syrrup with Sugar, into the form of a Julep or Apozeme. Or Chicken, Goat, or Mutton Broth, to be taken many days together after general Evacuations.

Also after every Purge, take some of these following, once or twice in a Week.

Take of the stalks and flowers of Beans three pound; Calcitrap one pound: beat them, and add one pound of Sugar-Candy; the Juyce of Lemons one pint and an half: the Juyce of Oranges half a pound: the Decoction of Mallows and Marshmallows well strained two pound: Honey one pint. Distil them with a gentle fire, and let them not be burnt, nor the Liquor wholly consumed. Let the Patient take four ounces of this Water every morning.

Take of the stones of Medlars, and the powder of *Diatragacanth* frigid, of each one ounce; dried Rest harrow Roots, Liquoris, Melon and Gromwel seeds, of each two drams: Saxifrage, Broom, Rhadish, Knee-holly, Calcitrap seeds, of each one dram; Marshmallow and Sparagus seeds, of each one scruple; Sugar-Candy two ounces: make a Powder. Of this let him take one spoonful thrice in a month in the morning, about New-moon, Full-moon, and Wain, drinking after it a little Whitewine, or red Pease-broth, Sea-holly and Liquoris, exercising after it.

Carolus Piso highly commends this following Powder, which he gave with his Purging Powder before mentioned, and took away many boxes of small stones from a President of *Lorrain*.

Take of Marshmallow and Violet seeds, of each half a scruple; Gromwel seeds and Liquoris, of each one scruple: the Jews Stone, and Sponge Stone, of each six grains: the powder of Dates, Medlars and Cherry Stones, of each two scruples; Melon seeds three drams: make a Powder. Give one dram with unleavened bread dipt in Whitewine three days together of the New-moon, and let him drink red Pease broth after it, wherein the Roots of Marshmallows, Fennel, Sea-holly, Rest harrow and Parsley, and Juniper-berries bruised have been boyled, adding a little Whitewine, Honey, Butter and Juyce of Lemons.

This following Electuary prescribed by *Zapata*, is excellent:

Take of the Seeds of St. Johns-wort dried, and finely powdered, three ounces; Conserve of Roses or Violets one pound: mix them into an Electuary, of which let the Patient take half an ounce every morning three hours before meat, the first two Weeks two days together, and after for fifteen days once in a Week; and after that once in a month, or oftener, according as the Disease requirerh.

Conserve of Roses is better than Violets, because it correcteth the scent of the Turpentine which comes forth of the Seeds of St. Johns-wort beaten. But Violets agree best with the Reins.

These following Lozenges are very safe, and most excellent:

Take of the four great cold seeds, and of Liquoris, all cleansed, one scruple; Burnet, Bazil, Parsley seeds and Nutmeg, of each half a dram; *Aromaticum Rosatum* two scruples; Sugar dissolved in Winter-Cherry Water, four ounces: make Lozenges of three drams in weight. Let him take one in the morning three hours before meat, drinking after it four ounces of Rest-harrow or Rupter-Wort water, with two ounces of Whitewine.

The Wine of Winter-Cherries described in the Cure, if it be drunk sometimes, doth take away the matter that breeds the Stone, saith *Villanovanns*.

In the use of all Diureticks observe this, They must not be used too often, because they draw to the part affected; there once or twice in a month, or sometimes seldomer, is sufficient, purging before fire lest the humors of other parts should be carried to the Reins.

Turpentine may be used oftener; for *Amatus Lysitanus* in *Curat.* 68. *Cent.* 2. reports of a Monk that had the Joynt-Gout and the Stone, both, and could find help by nothing: at length by the use of Turpentine he was Cured within six months of them both. Every morning he swallowed the quantity of a small Nut with Sugar. And the reason why Turpentine often used doth not hurt as other Diureticks, in my Judgement is this; Because it loosneth the Belly withall; so that those gross humors which by other Medicines would be carried to the Reins, are sent out by Stool.

But commonly Turpentine is used seldome, as other Diureticks, either alone, or with other medicines thus.

Take of Turpentine ten times washed in Saxifrage or Pellitory Water half an ounce: With Sugar make a Bolus. Or,

Take of Cassia newly drawn six drams; Turpentine half an ounce; Powder of Liquoris two drams: mix them for a Bolus. Or,

Take half an ounce of Turpentine, and one dram of Powdered Rhubarb; mix them for a Bolus. Or,

Take four ounces of Turpentine, burn it upon an hot Iron that it may powder, and give in 6 drams with convenient Liquor. Or,

Take Turpentine half an ounce; Powder against the Stone called Pulvis Lithontribus, two drams: mix it for a Bolus.

Zacutus Lusitanus, Observ. 58. Lib. 2. Praxis admir. doth much commend Natural Balsom for expelling Stones, and that a man of threescore years of age that had his Water stopped eighteen days with Stones, was cured thereby. First he took some drops of it with Oyl of sweet Almonds, encreasing the quantity of both till he came to half an ounce of Balsom, and three ounces of Oyl of sweet Almonds, within ten days he voided six stones; and afterwards he was preserved by the same medicine, by taking in a morning half an ounce of Oyl of sweet Almonds, and six drops of Balsom, by which means he made a Sandy Urine, and lived long. If you want Eastern Balsom, you may take that of Peru.

The same Zacutus in the same Observation, doth commend Tobacco Water, in these words; Remember (saith he) that I took away many great stones fastened in the hollow of the Reins, with distilled green Tobacco Water. If you want that, then use the Decoction.

Most wise Verandus my Master, commends the Waters of some Baths, Balarvacan or Bituminous, for Preservatives against the Stone, of which we have seen rare effects. We add his words; There is (saith he) no better Medicine after Purging, than the drinking of Balarvacan Waters; for by the heat which comes from the Bitumen, they dissolve gross Humors and Stones, and by their Nitrons quality they cleanse, and by their great quantity do not only cleanse the Guts, but Reins; so that it is incredible to tell what abundance of thick Water some have made after it. But when we fear the Inflammation of the Guts, we ordered them to abstain from Wine, and gave them Chicken Broth with cold Herbs and Juleps. Therefore we put fat Flegmatick men into them once a day in the morning, having first anointed their Reins and Liver with some proper Oyntment; and bound them with doubled Linnen Cloaths, that the Excrements might be received from the pores opened. And if their Bowels grow hot, they may after use sweet Water Baths that cool and moisten.

Sharp Mineral Waters, or Vitriol, are also good to prevent, for they do not only dissolve the slimy Tartarous matter that breeds the Stone, but correct the hot distemper of the Liver and Reins, and therefore in hot distempers these are best.

And because hot Bodies are hurt by hot things, we will prescribe more temperate; as Bean and Rupture-Wort Water, and Lemmon Water distilled. Slice them and distill them in Balneo Mariae. And for their better cooling, still them with milk.

The Conserve of Hips is Diuretick and cooling, and is commended by Crato in this case also.

The Conserve of Marshmallow and Mallow flowers, which by mollifying and moistening helps the Stones to come forth.

The inspissate Juyce of Purslain made into Pills, and given one dram at a time, doth powerfully cleanse the Reins.

The dried Flowers of Pomegranates in one dram, doth Purge the matter causing the stone.

And the like Quantity of the dried Sponge of White Thistle, given in like quantity, is excellent.

Fresh Butter with as much Sugar Candy taken every morning fasting, doth cleanse the Passages of the Urine, and hinder the breeding of the stone.

Bitter Almonds taken ten or twelve in a morning, do the same.

Filberts also taken before meat, are commended by Crato, who says that he found by Experience, that many long affected with the pain of the Reins, were Cured by them. Which Amatus Lusitanus (Curat. 78. Cent. 7. wisely confirmeth where he thus saith; Aman that had the pain of his Back, and pissed often red hairs, complained of his Loins and Guts, for which he had taken many things in vain, but contrary to all hope he was cured with eating of Filberts. For one counselled him, that if he would be cured, he should eat Filberts with their inward Husks before Dinner and Supper. But he considering the Innocency of the Medicine, eat them at meat, and after also: by which he was cured perfectly, and his pain never returned. Amatus Lucitanus in his Notes, adds this: That not only that man, but many others have been cured thereby. These are those vulgar Nuts that Avicen reckons among the Medicines that consume the Stone. But the Question is, By what faculty they work? Whether by the dryness of the inward Skin? But some say that they work by their Oily quality.

The Chymists commend the Spirit of Salt, and give some drops thereof in a morning with broth or other Liquor.

Zechnius commends boyled Water given warm, the quantity of six or seven ounces, once or twice in a day before meat. For it cleanseth the Reins, and extinguisheth the heat, so that they cannot after breed Stones.

Let his Drink be thin Wine, with the Decoction of Sea-holly. This Crato commends. And we have seen excellent effects thereby.

Sowr Wine called in *French*, *Unies*, drunk often, doth so much good, that some have Vinyards of those Grapes on purpose.

To correct the hot distemper of the Reins, is the best Preservative, by such things as are mentioned in the hot distemper of the Liver. For they help the Reins and the Liver, from whence many times they are distempered.

Among the rest, Whey drunk in Summer a whole month together, is the best, And sharp Mineral and Vitriol Waters to cool all the Bowels.

You may apply this following Epitheme often to the Reins.

Take of Lettuce, Water-Lilly and Rose-Water, of each three ounces; Rose Vinegar two ounces; Apply them very warm Morning and Evening.

This following Liniment is good, especially in Winter.

Take of the Oyl of Roses, water-Lillies and Violets, washed in Vinegar and Rose-Water, of each one ounce; the Mucilage of Marshmallows drawn in Pellitory Water, six drams; Wax, a little. Make a Liniment for the Reins Morning and Evening.

The extraordinary heat of the Reins, is allayed with a Plate of Lead, always worn.

And Lastly, Because the Crudities of the Stomach do breed the Stone, you must have an Eye to that, and strengthen it with such things as are prescribed in the Chapter of the Weakness thereof.

CHAP. II.

Of the Stone in the Bladder.

ALthough we should speak of these Diseases of the Reins in order, yet because the Stone in the Kidneys and Bladder are of the same Nature, and what hath been said of the one, may agree with the other, we shall speak next of the Stone in the Bladder.

CAUSE. The Material and Efficient Cause is the same of both: only this difference there is, That Children are most subject to the Stone in the Bladder, and men to that in the Kidneys. The Reason of which is given by *Galen*, 6. Epid. Sect. 3, because thickness of Urine, which Children often have by Reason of their gluttony, is dissolved by their gentle heat: neither doth it stay in the Reins by the help of the expulsive faculty of the Reins, which is stronger in that age; but being fallen into the Bladder, there it stays longer, because Children given to play and sleep, piss more seldom. Moreover, their Urine is not so sharp, neither doth it provoke the expulsive faculty of the Bladder, while the quantity is burdensome, and so the dregs remain because the Passage is very narrow; besides, the Bladder being stretched by the plenty of Urine, cannot so exactly contract it self to empty out all the Urine, but some remains in the bottom, which is thick and fit to breed the Stone. On the contrary, old men do often piss forth that matter which is in the Bladder, and their passage is larger; but the thick Humor remains in the Reins, because it is clammy, and cannot be dissolved by their weak heat, or strain through by reason of its dryness. Hence *Hypocrates* in *Coacis* saith, That the stone in the Bladder is not bred after fourteen years of age to threescore, except it was there before.

Fernelius mentioned a new Opinion of the Stone breeding in the Bladder, saying, That every stone in the Bladder had its beginning from the Kidneys, and grows afterward in the Bladder: For when in a fit of the stone, it falls from the Reins, if it be great, it stays in the Bladder, and by getting new Matter it encreaseth by degrees. For he affirmeth, that in grinding of some stones taken out of the Bladder he found as it were a Kernel which fell from the Reins, of another colour and substance, and that he never knew any that had a stone in the Bladder, who was not formerly vexed with pains in the Reins. But this Opinion is cast off by divers very good Authors, who by their Experience have found the contrary, and have taken many stones from the Bladders of Children, which have been wholly of the same colour and substance within. And common Experience teacheth us, that Children have the Stone in the Bladder, who never had pain in the Reins, which would be otherwise if the Stone came first from the Reins. It is true, that in men many times Stones fall from the Kidneys into the Bladder, and encrease by the addition of new Matter; but we deny it is always so, and we constantly affirm, that many Stones have taken their beginning in the Bladder.

DIAGNOSTICK.

The knowledge of the Stone in the Bladder is difficult, especially in the beginning, when it is little; but when it is great it is evident. But we shall discover it as much as we can by Art.

The First Sign is pain in the neck of the Bladder, which is worse towards the end of pissing, and reacheth to the end of the Yard, like that which is in difficulty of Urine from Inflammation called *Dysuria*, scarcely at first distinguished from it, but when other signs appear

The Second Sign is Itching in the Yard, which makes the Patient scratch it often.

The Third Sign is Weight in the *Peritonæum*, or inward covering of the Guts, and all about the *Pecten* where the Hair groweth, with a heavy pain, when the Stone is great.

The Fourth Sign is, when there is a great Stone there is a great stoppage of Urine, with pain like Women in Travel, and dropping of Water, and often endeavouring to piss.

The Fifth Sign is Stoppage suddenly in time of Pissing, by reason of the stone falling to the Orifice of the Bladder.

The Sixth Sign is Easier making Water lying upon the Back, because it puts the stone from the Orifice to the bottom of the Bladder.

The Seventh Sign is Often standing of the Yard, which comes from stoppage of Urine, and of the Inflammation of the Bladder by the Stone rubbing against it.

The Eighth is an often desire to go to stool, which follows the desire of pissing, by reason of the consent of the Sphincter Muscles of the Anus and Bladder; for when one is provoked, the other is provoked because they have branches from the same Nerve.

The Ninth is the Patient cannot rest in a place, but shakes his Leggs, and if the Stone be great, he can scarce stand upright, ride, or walk in rough places; for then the mouth of the Bladder is much afflicted with the Stone.

The Tenth is that the Patient is helped by no Remedy, but worse commonly; for all Medicines that go through the passages of the Urine, either do bring new matter, and encrease the evil, or carry away the flegm, which being about the Stone made it less offensive, but being bare, doth grate the inward Tunicle of the Bladder.

The Eleventh Sign is when the Patient is in pain of the Reins, and after a fit useth to void stones which caused it, but now voideth none as formerly, it is a sign that the Stone causing the pain, is sent to the Bladder, and there remains, where by degrees it encreaseth, and causeth the aforesaid Symptoms. Therefore if any after such pain, voids no stone, and after a time begins to be stopped from making Urine, it is very probable that there is a stone in the bladder.

The Twelfth Sign is from *Hypocrates*, Aph. 79. Sect. 4. *They who make a sandy Urine have a Stone in the Bladder.* Which Aphorism hath troubled many Wits. *Galen* in his Commentary thereupon, saith, that it is manifestly lame and defective, because *Hypocrates* left out half of it: for whether the Stone be in the Kidneys or bladder, always the Urine is sandy. And *Hypocrates* himself contradicts this Aphorism, *Lib. de internis Affectionibus*, where he reproveth the old Physicians that supposed sand in the Urine to be the Sign of the Stone in the Bladder. *Cardanus* in his Comment upon the same Aphorism, saith, That he voided for thirty years, first red, then white Sand, every day in abundance, without any suspicion of the Stone either of the Kidneys or Bladder; and he further saith, that there are scarce one in ten who doth not void Gravel, yet few there are that are troubled with the Stone in the Kidneys, and fewer with that in the Bladder. The *Spaniards* void much Gravel, and yet are not subject to the Stone.

We distinguished of Sand in the former Chapter, which may signifie the Stone: But we said it was an Equivocal sign. For that Sand is sometimes sent forth by the strength of the expulsive faculty, and is not kept in the Kidneys and bladder any while. And if this sand did shew the stone more surely, yet it would never declare that of the bladder only. And therefore that Aphorism, as the words are, is false.

Beveroviti and *Salmasius* have greatly contended about this Aphorism (both Learned men, and good to open dark sentences) and they have written both whole Volumes of the same. It is not our intention to stay long upon it, determining this one thing for an end of all Controversies: That the Opinions of Authors, which at first seem contrary to Truth and daily Experience, are always to be taken in that sense which is most conformable to Truth, although the words will not bear it, which in such a case are to be thought to be added by simple fellows in the Translation, or the whole Sentence to be put in by them; as *Galen* saith often of some of *Hypocrates* his sayings, That they are thrust in by others, when they carry not the weight and Majesty of *Hypocrates*. And the Opinion of *Beveroviti* concerning sand in the Urine, seems not to be according to the mind of *Hypocrates*, nor to be of great use in Practice. First, it seems not to agree with *Hypocrates*, who in his foregoing Aphorisms, takes signs from things contained in the Urine; and following his matter in hand, saith, That Sand in the Urine signifieth the stone of the bladder. But *Beveroviti* inverts that Sense, and saith, that *Hypocrates* is to be understood of sand, which formerly used to be voided, that if they subsist, that is, be retained in the bladder, and be no more sent forth, it is a sign that the sand so retained is turned to a stone in the bladder. This Interpretation, as I said, doth not agree with *Hypocrates* his Intention, and it nothing avails for Practice; for they who use to void Gravel, have some times of intermission, in which there is not a stone bred in the bladder. Nor hath it much weight that *Beveroviti* observeth, That *Hypocrates* in his other Aphorisms where he lays down the signs to be taken from the things contained in the Urine, doth not use the word *subsidentia*, or settling

ling or falling down ; but the word Excretion, or voiding. As for example, they who piss matter or blood, with thick and branny Urine, &c. But here he useth the word that signifieth settling, to shew that he meaneth something else. But we bringing all things to Practice, say that *Hypocrates* in this Aphorism, could not use a word which signifieth only sending forth, or Excretion, because he ought to distinguish that sand which signifieth the Stone from that which doth not. This Sand, as we said in the former Chapter, settles in the bottom of the Urinal; but other Sand doth only stick to the sides ; and therefore *Hypocrates*, that he might distinguish them, said well, They whose sandy matter settleth ; for others which do not settle, are not a sign of the stone in the bladder.

But that we may bring this Aphorism to Truth, and practical use, we suppose that the Opinion of *Johannes Zechius*, is the best; who makes it a proper sign of the stone of the bladder, and there is great use of the Aphorism in Physical Practice, when by all other Interpreters, it is made unprofitable. And that *Zechius* may be honored by them who have not his Works, we think it worth our labor to repeat his words, which are in his Book of Consultation, 58. Consult. *Hypocrates* (saith he) *Ap. 79. Sect. 4. said thus, which was never understood yet, either by Galen, or any other. They whose Urine hath a sandy settling or sediment, have the stone in the bladder. Which sentence, if we should take it according to Galen, would be false, because we observe that many men do piss sand all their lives (whereof I am one) without any suspicion of the stone in the bladder. From whence, I cannot but wonder at Galen, and all the rest after him, that they should either not understand so useful an Aphorism (which I can scarce believe) or by reason of its ambiguity pass it by. The whole difficulty is in the signification of the word [Sabulosa] in Greek called Plamimodea: Hypocrates would have nothing understood thereby but thick gravel mixed as it were with fat Earth like Clay or snot in the bottom of the Urinal; a certain sign of a great stone in the bladder. But because there is nothing constant in man, it is not to be admired that some that have this Disease have not this sign; as when the stone is small, as we observed in Cardinal Paleotus. Now the cause of this muddy Excrement hath been shewed in another place. So far Zechius; but where he shewed the cause of it, we could never find. But we plainly shewed it in the former Chapter, when we said that this snot-like matter is the proper Excrement of the bladder distempered, when it cannot concoct the great quantity of blood, and superfluous humors which are sent thither, and turn them into its self, but turns them into that consistence like snot; and this evil disposition of the bladder comes from the stone therein. Let that be perused, for it maketh much for the understanding of what hath been said.*

But there still remaineth one difficulty, for some have daily flegmatick slimy matter in their Urine, and yet are free from the stone in the Bladder. And *Cardanus* reports of an *Augustine Monk* called *Leo*, that shewed him often so much congealed flegm in the bottom of his Chamber-pot as was bigger than a Goose Egg and yet he had not the Stone. To this doubt we answer, That the slimy matter that comes from the bladder, is to be distinguished from that which comes from other parts, because that which comes from the bladder is more clammy and glutinous, so that it sticks fast to the bottom of the Pot or Urinal and cannot be shaken off when the Urine is poured forth; but that which is from other parts doth not so cleave, but comes presently forth with the Urine; Experience hath taught me this, which hitherto no Author ever yet observed. This clamminess comes from the Nature of the bladder, which is a Membrane; and apt to produce this glewiness, as you may see Glew is made of the Membranous Skins of Beasts.

This tough glutinous Matter, I say, comes from the evil disposition of the bladder, which is caused by the stone there, and we can thus prove it besides what hath been said; Because we have known a Child of twelve years old, that had a stone in the bladder, and pissed continually a glutinous matter that cleaved to the bottom of the Glass. And after the stone was cut forth, he voided the same for a month, but afterwards none at all. Which clearly shews, that matter comes from the evil disposition of the Bladder, which could not presently be cured after the cutting: but after the Bladder was cured, that matter appeared no more, which shews that it came from no other part but the bladder.

For a Conclusion of this, let us take notice. That whensoever this slimy matter appears with all the aforesaid conditions, there is a stone in the Bladder; but when it doth not appear, it doth not follow that there is no stone, for it often happeneth that the stone is smooth, or little, and so doth not hurt the bladder, and the Urine is always clear. This is a true sign, that there is a stone when it appears; but when it is absent, it is not the sign of no stone.

Nor would this Objection, or rather Cavil, become a wise man, because from our Observation before mentioned, we proved that such matter might be voided by Urine, and yet no stone in the Bladder; for it was cut forth. It is sufficient that either a stone was lately there, which was the cause of this Disease; and so this kind of matter signifieth, either a stone there now, or lately hath been there.

The last sign is by tryal with the Catheter, and putting the finger into the Anus, which operation
must

must be used to take away all doubt; for the most part it doth: for sometimes the stone is covered with slimy matter or a bag, so that the Cutters themselves are deceived thereby. But the Catheter is more uncertain than the Finger, by which you may not be certain not only of a stones being there but of the form and bigness of it.

PROGNOSTICK. As for the Prognostick of this Disease: It is always painful and dangerous; painful, because only very small stones can pass through the neck of the Bladder.

The great ones, if like Flint, cannot be dissolved; if soft, like Chalk, or brittle, they may be dissolved with long use of powerful Medicines, which for the most part the patient will not stick to, and therefore they are seldom cured; therefore there is often cutting, which how terrible it is, daily Experience will declare, because many die under the Operation. Hence *Hypocrates* in his Oath, commands his Disciples that they use it not, but leave it to men of that Profession only. But in Women, the Operation is less dangerous, because their Passage for Urine is wider, and it may be done without cutting, only by enlarging the part.

CURE. The way of Cure is the same with that of the Kidneys: first, Evacuation of the antecedent matter, Revulsion and hindering of the breeding of it: and let the matter conjunct, of the stone itself, be diminished, worn away, or dissolved, for which there are good Medicines in the Chapter foregoing.

Of which, the distilled Water of Onions is most excellent, by which continued twenty days, we saw a stone bigger than a bean, thrown out of the bladder.

But the best Authors, and Experience teach, That things taken at the mouth cannot dissolve the stone in the bladder. Hence it is, that we commonly refer them to the Cutter. But because there are many stories of men cured by such Medicines; we will speak of the chief, that every one may try them, if he please, before he go to the terrible Chyrurgeon. Sometimes the Stones are so soft and newly congealed, that it is not impossible to dissolve them; but hard flinty stones cannot.

Horatius Augenius, Tom. 2. Epist. Med. Lib. 9. Epist. 8. I (saith he) have twice seen the Stone broken in the Bladder. Once by chance I had the same of one Janetus a Printer at Rome, in Cure, whom I purged, that he might be cut with more safety. For he had tried all the Venetian and Florentine Physicians. But when nothing did him good, he sent for the Priest to consult about his Soul, and resolved to be Cut. The Priest being a Jesuite, and hearing his Confession, and the condition of his Disease, told him a Medicine, of which he had made tryal in himself and others. He tryed, and was cured in the space of nine days. The Medicine was this:

Take of the powder of Hog-lice or Sows one dram, or four scruples at the most. Aqua vitæ half an ounce; red Pease Broth nine or ten ounces. Let him take it five hours before dinner.

I Cured one of eighteen years of Age, of a hot and dry complexion, by taking away some part of the Aqua vitæ, and gave it him but every other day, and at other days of Bean and Strawberry Water, of each five ounces, with six drops of Oyl of Vitriol, and one ounce of the Julep of Violets, to cool him, thus:

Take of the Powder of Sows prepared one scruple, Aqua vitæ two scruples; red pease Broth eight ounces. Mix them, and give it six hours before meat. Thus *Augenius*.

Sennertus in his Chapter of the Stone in the bladder, tells a famous story of *William Lauremberg*, Professor of *Rostoch*, who being old, and troubled with the stone, was unwilling to be cut, and therefore sought for other Remedies. First he tried the Famous Water against the stone, which is so much prized by Princes, which is thus made:

Take of Salt of white Tartar one ounce, Parsley water one pint: mix them, and strain them with a brown paper; and with Orange peels make it yellow. He used also the Indian Jewel, called in Spanish, *Igiada*, which is most famous for breaking the stone; but both to no purpose. Therefore he desired to make tryal of the Medicine of Sows, which *Horatius Augenius* saith, cured two young men.

In imitation of whom, after general Physick, and good Diet, he took of Sows one scruple, the Spirit of Juniper two scruples; red Pease broth ten ounces, which he took in the morning; but the first and second time he found a straitness in his breast, and a fainting, so that he was constrained to take one dram of Treacle with the Potion; and so used it fifteen days: but all this while he voided no Gravel. And then he added other things, and made it thus:

Take of prepared Sows two ounces, a Hares and Goats blood prepared, wild Rose Flowers, and purple Violet seeds, of each one ounce, Species Lithontribi two scruples; mix them for an Antidote, of which take two scruples; the Diuretick Decoction ten ounces; the Spirit of Juniper two scruples.

Which Medicines after he had taken it the second time at five a clock in the morning, four hours after he felt a great pain under the Os Pubis, about the neck of the bladder: A little after he made a little Water, and therewith some red things like scales of fishes, which though they seemed to be slimy, yet when they were touched, turned to Sand. So that it plainly appeared, that they were the outside of the Stone.

By the continuance of this Medicine, every fourth or fifth day he voided the like scales, and sometimes bigger pieces, especially when he used a sweet bath. But when the neck of the bladder was wounded by the fragments and the Stone, he used Medicines to assuage pain; and by the use of these medicines, was in seventeen months cured. The Decoction was:

Take of Liquoris four scruples; Roots of Marshmallows, Couch-grass, Rest-harrow, of each half an ounce; Winter-Cherries twenty, red Pease six ounces, Raisins one ounce, the four great cold Seeds of each one scruple; Barley two handfuls. Boyl them in Winter-Cherry Water, Rest-harrow, Strawberry and Bean flower water, of each one pint and an half: to the straining, add of the Syrrup of Marshmallows four ounces.

The Sows are thus prepared:

Take of live Sows two pound, wash them in Rest-harrow Water, then drown them in Spanish Wine, then pour the Wine out, and put them in Glasses, the more the Glasses the better, because then they will dry better. Put these Glasses well stoppt into the Oven when the Bread is drawn, that they may dry gently till they will powder; then put some Spanish Wine upon this Powder, as much as it will take in, and dry it again; do so thrice: and fourthly, wash it with this Liquor.

Take of Strawberry Water three ounces, Spirit of Vitriol half a dram: mix them, then dry it, and make it fine, and keep it in a Glass for your use.

Besides the aforelaid, the use of distilled Water of Goats blood, or of the Urine of a Goat newly slain, which was formerly mentioned in the Stone of the Kidneys.

If the Stone cannot be broken with Medicines, necessity requireth the manual operation, though it be dangerous lest the Patient die with lingering pain. This requires a skilful and well exercised Artist, and that it may have good success for the most part, as we have observed.

It is the Duty of the Physitian, before the operation, to prepare the body by bleeding, purging, and Diet, as the state of the business requireth. And observe, that the taking away of a stone from a Woman hath no danger, because it is done by enlarging the Passage of the Urine, which in them is very short.

If the Patient fear cutting, or want a good Chirurgeon, he may use assuaging Medicines, lest the Stone should cut and ulcerate the neck of the bladder, such as are prescribed for heat of Urine.

But if a Stone fastened in the neck of the bladder stop the urine, it must be shaken back with lying upon the back with the Legs up, and the body shaken; and then by a good fomentation or bath, and with a Catheter, let the stone be sent back into the bladder.

CHAP. III.

Of the Inflammation of the Reins and Bladder.

BECAUSE the Inflammation of the Reins and Bladder are cured with the same Medicines, therefore we will put them in the same Chapter, although the Signs are different, as shall be shewed.

This Inflammation is a Tumor of those Parts, from the flowing of Blood or Choler unto them.

This is not very ordinary, because the substance of those parts is solid and thick; but sometimes it happeneth, because the Kidney and fleshy parts are apt to receive blood: but the Bladder, though it be without blood and spermatick, because it receives blood for its nourishment through the small veins, is without question subject to Inflammation by too much blood; as other Membranes of the Brain or Meninges: the *Pleura Mediastinum*; and the like.

We said that these inflammations come from Blood or Choler, as when Flegm or Melancholy, if the blood make the parts thicker, because they cannot pierce into their thick substance.

CAUSES. The Causes of this Disease are either from things Natural, not Natural, or Preternatural.

From Natural things, when there is a Natural Infirmary of those parts from the Parents, or a great looseness of them, a great heat originally in them, by which they draw plenty of Humors: In Youth these conduce much to an Inflammation.

From things not Natural, as much Venery, which weakeneth those parts, and draws much blood or other Humors to them; Gluttony, Drunkenness, and eating of Salt and Spiced meats; great Passions of the Mind, lying upon the back in a soft bed, great Exercise, stoppage of some great Evacuations, as of the Months and Hemorrhoids, or usual bleeding at the Nose, those things which cause repletion and evil concoction, and drive the Humors to the inward bowels.

From Preternatural things, as a stroak or wound upon the Reins, or about the Bladder; pressing or bruise of those parts, constant Feavers, foulness of the Vessels, or other parts that purge themselves

selves by Urine; as in a Pleurisie, Empyema or Imposthume in the side. Obstruction of the Spleen breaking of the Mesentery and the like. And lastly, Diseases of those parts do cause Inflammation, as the Stone, great pain, exulceration, heat of urine, and stoppage thereof, or the like.

SIGNS. The Signs of the inflammation of the Reins, are a weighty pain in the Reins, sometimes beating, if the place be affected where the Arteries are: And this pain extendeth to the parts adjacent, so that the Patient can neither lift himself up, nor stand upon his Feet, and scarce turn himself; and neither lie upon his side, nor his belly, because then the part inflamed will hang down; therefore he lies always upon his back, and if he neither neeze, or otherwise move his body, the pain is encreased. He hath a numbness or pain in the Leg on the same side, by reason of the nerve that goes from thence to it. He hath difficulty of Pissing, by reason of the heat which is sent to the urine, and filth mixed with it coming from the inflamed part. The urine is first thin and yellow, but after red and thick; he hath a constant sharp Feaver, which is attended often with watchings, dotings, and other great Symptomes; also loathing and vomiting, by which he voids Choler, Flegm and other Humors.

Sometimes the Gut Colon is inflamed, and if it be that part which is near the Liver, it brings the like Symptomes: but here is the difference; In the Inflammation of the Reins, the pain reacheth to the short Ribs, the back and bladder; but that of the Colon tends more to the belly, and there is a greater change of Excrements of the Belly, than the Inflammation of the Kidneys.

But in the Inflammation of the Kidneys, there is a pain about the *Pubis* and *Perinaem*, in which there is heat, and sometimes redness. There is constant heat of urine, but that is stopped when the part swelleth, and stoppeth the passage.

The straight Gut suffers by reason of its nearness; hence it is, that there is often desire to go to stool with burning, sometimes the Belly is bound, when the Gut is stopped by the inflamed Bladder. There are also other common Symptomes mentioned in the Inflammation of the Reins, as a Feaver, watching, doting, thirst, and the like.

PROGNOSTICK. There can be no good Prognostick in this Disease: For the inward Inflammation of the noble inward parts do threaten continual danger of death. It is most deadly when a Convulsion or dotage followeth, or the like great Symptom: and if there be a cold sweat, death is at hand.

In the Inflammation of the Reins, if the Hemorrhoids follow, it is good.

If the Inflammation Suppurate, and the Imposthume break, and go into the passages of the urine, there is hope; but if it go by the Emulgent Veins in the Liver, and labour to get way through the Guts, it is dangerous.

A small Inflammation of the Bladder with a Sediment in the urine that is white and equal, promieth health.

An Inflammation of the Bladder is sometimes cured by an Erysipelas, or Cholerick Tumor arising in the Skin suddenly, and by making much urine.

CURE. The Cure of the Inflammations of the Reins and Bladder, is made by revelling, deriving, cooling, and moderately repelling, by Anodines, Resolvers or Ripeners, if need be, and the like, whose Matter and way of using shall be as followeth:

And first, Phlebotomy is very necessary in the Liver Vein, on the same side the pain is, twice, thrice, or four times, or oftener, if the strength will bear it, till the defluxion ceaseth, which you may know by the abating of the pain. But in the Inflammation of the Bladder, the right side is to be chosen by reason of the Liver, from whence, as from a Fountain, the blood floweth to the part.

After much blood is taken away, and revulsion is made by the upper Vein, you must also open the inferior for derivation sake in the Ham or Ankle; as also the Hemorrhoids are to be opened, especially if they be swelled.

Cupping Glasses with Scarrification, are also good for revulsion, both above and beneath, and Frictions with strong Ligatures of the extream parts, to draw the Humors outward.

After, and before blood-letting, give a mollifying and cooling Clyster that is little loosening, and let it be of a small quantity, lest it oppress the Tumor, thus made:

Take of Marshmallow Roots one ounce; Mallows, Violets, Lettuce, of each one handful; sweet Prunes four pair; Barley and Violet Leaves, of each one pugil: make a Decoction to eight or ten ounces. In the straining, dissolve of Cassia or Diaprunes simple one ounce; Oyl of Violets four ounce, two Yelks of Eggs. Make a Clyster.

Allay the heat of blood with Juleps and Emulsions made thus:

Take of Endive, Lettuce and Purslain Water, of each four ounces; Syrrup of Pomegranates two ounces; Syrrup of Water Lillies one ounce. Make a Julep for three draughts morning and evening, Or,

Take of Sorrel Roots two ounces; Mallows, Plantane, Purslain and Endive, of each one handful; the tops of white Poppies half a handful, Annis and Lettuce seed, of each one dram; Borrage, Violets and Water-Lilly flowers, of each one pugil; boyl them to a pint and an half: then add four ounces of the Juyc of Pomegranets. Or,

Take of sweet Almonds blanched one ounce ; fresh Pine-Nuts half an ounce ; Lettuce, Sorrel, Purslain and Poppy seeds, of each three drams ; beat them according to art, pouring out by degrees of Barley, Lettuce and Purslain Water, one pint and an half. Dissolve in the straining, Sugar of Roses one ounce. Make an Emulsion for three doses, in which we leave out the great cold Seeds, because being Diuretick they may draw something to those parts, especially in the time of the defluxion, but in the declination they may be useful. You may profitably add to the Emulsion, the Syrrup of Poppies to stop the flux more violently.

Also the parts inflamed may be cooled by Clysters made of the Decoction of the Julep aforesaid, with oyl of Roots of Violets two ounces.

In the beginning of these inflammations, purging is not proper ; for it is to be feared, lest the Humors being moved, should flow to the parts affected ; so that if there then be a great flux of the Belly, it is to be stopped for that cause. But when the Inflammation is a little allayed, and the disease declineth, a Purge made of gentle things may be good ; as of Manna, Cassia, Rhubarb, Tamarinds, Diaprunes simple, Catholicon and Syrrup of Roses, with a Decoction of Lettuce ; Purslane and other cooling things prescribed in the Juleps. Or you may make a Bolus of some of them.

Outwardly, All the time of the Disease, you must apply cooling things that gently repel ; as moist Epitheme of the Water and Juyce of Plantane, Sorrel, Endive, Nightshade, Roses, with a little Vinegar, red Sanders and Camphire. Liniments also of Oyl of Roses and Olives, Violets, Cerat of Sanders, white Oyntment, or Populeon alone, or mixed with a little Vinegar, which you must apply to the parts aforesaid every hour cold.

Or you may make a Liniment of an Egg well beaten, with a Little Oyl and Rose Vinegar.

Or you may make that which is excellent of Oyl of Roses, with Vinegar and Juyce of Knot-grass or Purslain ; to which add, if you please, a new yelk of an Egg. Let these be applied cold upon a Cloth.

If the pain be very violent, it is not amiss in these Epithems and Liniments, to mix a little *Opium* or Saffron.

Also you may make a Cataplasm of Barley meal, with Juyce of Endive, Purslain and Nightshade with Oyl of Roses and Populeon. But this must be often changed, lest it grow hot.

Three things are to be diligently observed :

First, That you use not Coolers too long, lest the Matter be kept from breaking forth, and the Tumor grow hard or Schirrous.

Secondly, In the Inflammation of the Bladder, you must use less astringers and coolers, lest you stop the urine ; which Symptome alone is very useful and dangerous in this case.

Thirdly, Cataplasms in the Inflammation of the Bladder are less necessary than Oyntments and Liniments, because they burden the part, so that it is more hard to dilate it self.

After you have used Coolers a short space, and often bleeding, when the defluxion is somewhat stopped, you must use Softners and Dissolvers ; such are Fomentations of the Decoction of Marsh-mallow Roots, Mallows, Violets, Pellitory, Linseed, Fœnugreek, Mallows, Cotten-weed, with Melilot, Camomel, Rosemary-flowers and Rose Leaves, to strengthen the part.

Then apply a Liniment of Oyl of Lillies, with a little Oyl of Camomel.

Among the dissolvers and Anodines together, there is none better than the Cataplasm made of Crums of Bread, made thus :

Take of white Bread Crums one pound ; boylit in Goats Milk to a Pultis : then add three Yelks of Eggs, four ounces of Oyl of Roses, half a scruple of Saffron : make a Cataplasm, change it often. You may add a little *Opium* and Camphire, if the pain be very great.

In the Inflammation of the Bladder, if you fear a Gangrene, you may make a strengthening Cataplasm of Bean meal, and Orobus meal, or Lupines boyled in Wine.

When the greatest part of the Inflammation is abated, then you must use Decoctions and Liniments which do not only dissolve, that the reliques may be consumed.

In the whole time of the Cure, you must have a special care of great Symptomes ; as the Feaver pain, watching, stoppage of Urine and Belly ; of the Stomach and other parts.

And as for the Feaver, pain and watching, it is most certain, that the things mentioned to evacuate and alter, do much for the mitigation of them. But to them you may add Epithems, Liniments and Rose Vinegar, such as use to be applyed to the Region of the Liver, Heart and Brain ; and in time of necessity, Narcoticks both by mouth and Clyster.

There are special Anodine Suppositories to take away the pain of the Bladder or Knots, made with yelks of Eggs, and a little *Opium*, and Juyce of Henbane, or the like.

If the Strangury or stoppage of Urine follow this Inflammation, you must cure them with medicines taken from their proper Chapters.

If the Inflammation of the Reins cannot be cured by what hath been prescribed, but it tendeth to suppuration, which you may know by the encrease of the Feaver, Pain and other Symptomes, as al-

so by trembling and vomiting, by greater weight about the part, especially when the Patient lieth on his sound side; you must help Nature with Cataplasms of Roots and mollifying Herbs, Linseed, Camomel flowers: To which being boyled and beaten, you must add Meal, Butter, Grease, or Oyls of the same vertues. With which, if the Imposthume break not presently, and come forth by Urine, the Matter will get into the Cavity of the Abdomen, whence will proceed either sudden death, or a Hætick Feaver. Sometimes the Tumor appears outwardly, and then you must open it either with a Potential Cautery, or an Incision Knife.

Sometimes those Tumors grow hard and Schirrhus, when the Feaver is gone, and the pain remains, with a greater fence of weight and a kind of numbness of the subject parts: And this is commonly incurable, and brings an evil habit, or a Dropsie. Yet you may try with mollifying, cutting and digesting medicines, such as were mentioned in the Schirrhus of the Liver.

Chap. 4 Of Pissing of Blood.

Blood may come from divers parts to the passages of the Urine, and be mixed with it, and make it look like Blood: but because this happeneth but seldom, and we here treat only of the Disease of the Reins and Bladder; we shall speak only of that bloody Urine which is made so from the defect of the Reins and Bladder. Blood flows from these parts, as from all the rest (as we said in Hemorrhagy, Hemoptysis, Vomiting of Blood and Hæmorrhoids) either by Anastomosis, or opening of the mouths of the Veins by Rixis or Rupture, by Diabrosis or Corrosion, and seldom by Diapedesis or Rarification.

CAUSES. The usual Causes are much sharp Blood, or a Stone fastened in the Reins; the Veins are often broken with plenty of Blood; but Corrosion or Anastomosis, or opening, comes from sharpness: also corrosion or tearing may come from the stone, when being fixed in the Reins or Kidneys through violent riding, or other exercise, it is moved so, that it hurts the parts with its roughness.

Also other causes may break the Vessels besides repletion, as a fall or stroak, lifting, carrying, vehement motion, and the like.

That Blood which is brought forth by Urine from Plethory, is not always a Disease or Symptom, but sometime for the good of the Patient, when Nature lays down that which is burdensome unto her by that means; as *Aretæus* reports that some piss blood at several times; and when they do not, they have the Head-ach, mists before their eyes, and giddiness.

Also the Bladder may bleed if it be wounded by a stone, or corroded by a sharp Humor; but it is but little, because it is membranous, and without Blood; but if the Sphincter Muscle be hurt, or the passage of the Yard, there will be much blood, as in extraordinary Venery is seen often, especially when the *Prostates* are inflamed by a Gonorrhæa, or running of the Reins.

SIGNS. The Signs of this Disease are from the Kind of it, from the Part affected, and from the Cause.

The Kind of this Disease is apparent to the Sences, for it is easie to know when Blood is mixed with Urine, for it is like the washing of flesh, with small clodders at the bottom; sometimes the Urine is like a Lye, when it stays too long in the Bladder, by which means it grows black.

The place of the pain shews the part affected; for if it be in the Loyns, it signifies that the Kidneys are affected; but if it be in the Belly below the Navel, the Bladder is the part suffering. Moreover, if the Blood comes from the Reins, it is mixed perfectly with the Urine; but if from the Bladder it is not mixed. *Hypocrates* sheweth this Sign in two Aphorisms, namely, in Aph. 78. Sect. 4. *They who suddenly piss blood without force, have a Vein broken in their Reins*; and Aph. 80. of the same Section, *If men piss blood, or there be clots or drops in the Urine, and pain in the lower part of the Belly, the Peæten or Perinaum, these have their Diseases from the Bladder.*

If it come from the stone, the signs thereof which are mentioned in its proper Chapter, will appear; if they do not, you must conclude that it comes from too much Blood or sharpness thereof. The abundance of Blood will be known by the signs of repletion and sharpness; by the signs of Choler or Melancholy predominating; also salt flegm in the Urine will make a great stoppage of Urine, and pissing of blood; this hapneth often in old men that are very apt to be troubled with salt flegm. And the pissing of blood from sharp humors is distinguished from that in the stone, that in which there were first pains of the Reins, and voiding of stones; but not in the other whose Urine is clear, with no strange things therein. And the Disease proceeds not only from immoderate exercise, which is ordinary to both Causes, but also from the passions of the mind, when it comes from sharp Humors which are much stirred up by passions, so that they who are subject to this Disease, after Anger and Sadness, or great disturbance of the mind, use commonly to piss blood.

PROGNOSTICK. As for the Prognostick. A plentiful and often pissing of blood is very dangerous; for it will bring either a Consumption or a Dropsie: And if it continue long, it

may

may cause an Ulcer in that part from whence the blood floweth ; if much blood flow at one time, it will cause a great stoppage of urine in the Bladder, or some other evil Symptomes, as it encreaseth therein, and grows evil qualified.

CURE. The Cure of this Disease is divers, according to the variety of the cause.

And first, if it come from blood abounding, or from sharpness; it must be first cured with Phlebotomy on the same side, often and little, for the better revulsion : And by Cupping, Friction and Ligatures in the upper parts; and if blood flow violently, Cupping-Glasses must be applied to the Hypochondria.

For Derivation, let the Vein of the Ankle be opened, and the Hemorrhoids.

When warry Cholerick Humors cause it, let them be purged with Medicines mentioned in spitting of blood, often repeated at distance. To which also you may add these following at your discretion :

Take of the Powder of torrifed Rhubarb one dram ; prepared Coral half a scruple, Goats Whey, or Plantane water three ounces. Make a Potion.

Take of Cassia newly drawn half an ounce ; the Pulp of Tamarinds six drams, Eastern Bole-Armenick half a scruple. With Sugar make a Bolus.

After due Evacuations and Revulsions, or at that time, if need require, you may use things to stop blood, and knit the Veins. And these are not presently to be used at the first, lest being stopped too suddenly, it should grow cloddy in some part. For this purpose the Juyce of Plantane newly drawn is much commended, given four or five ounces in a morning and evening, which is good for any kind of bleeding. But if you fear it will cool the Stomach too much, you may boyl it a little with Sugar.

Sheeps Milk is much commended by *Forestus*, Lib. 24. Observ. 13. Often (saith he) I have cured pissing of blood, with only Sheeps Milk six ounces, and one dram of Bole armenick. The same is an Experience of *Gatinaria*; who also commands that none do sleep presently, or exercise after it. Also *Hollerius* and *Duretus*, from *Avicin* and *Hypocrates*, commend the same.

Also Decoctions of Knot-grass, Horse-tail, Purslain and Bramble tops are good for this, adding the third part of the Juyce of sharp Pomegranates or Quinces.

Or to allay the heat of the blood, let him take the Apozeme following many times, morning and evening.

Take of Lettuce, Purslain, Plantane and Comphry, of each one handful: all the cold Seeds, of each one dram ; Fijubes three pair ; Liquoris half an ounce . Water Lillies, Violets and Roses, of each one pugil ; boyl them to a pint and an half. In the straining, dissolve of Gum Tragacanth one dram and an half ; Syrrup of Violets and dryed Roses, of each one ounce and an half : Lapis prunellæ half an ounce ; the Troches of Winter-Cherries without Opium, half a dram. Make a Julep for four Dose.

To thicken and stop the blood more, put one ounce of Syrrup of Poppies thereto.

Also you may give the Powders that stop blood, as of red Coral, Blood stone, Bole-armenick, settled Earth, either with the Apozeme, or with Rose or Plantane Water.

If the Disease continue, give this Opiate :

Take of Conserve of Roses and Comphry Roots, of each two ounces ; Sealed Earth, Bole-Armenick, Sanguis Draconis, red Coral, Blood stone and Troches of Amber, of each one dram ; Hypocistis, or Conserve of Sloes, Kermes berries and Plantane seeds, of each one scruple ; with Syrrup of Poppies and Mirtles, of each equal parts : make an Opiate, of which let him take the bigness of a Chesnut morning and evening, drinking after it a little Plantane Water.

If it yet continue, it is good to give at distance the Decoction of Myrobalans in Whey, or the like.

Hollerius affirms and *Duretus*, That the Troches of *Gordonius* are the best for it.

Christopher Vega commends the Troches of Amber given with Plantane Water, and saith, that he cured this Disease with giving them only once at night.

For ordinary Drink, give the Infusion of Mastich-wood in Wine, made thus :

Take of sliced Mastich wood one ounce, spring water four pound ; infuse them in Balneo Mariæ very warm in a close Vessel. Keep the straining for your use.

But because clods of Blood are often retained in the Bladder, which beget grievous Symptomes, give warm Water and Vinegar, or Mallow Water and sharp Vinegar warm. Let the Vinegar be so little that it is scarce tasted.

Apply Topicks to the Loyns that cool and astringe :

Take of Snakeweed and Comphry Roots, of each one ounce ; Plantane, Purslain, Horse-tail, Knot-grass and Shepherds-purse, of each one handful ; Pomegranate peels half an ounce ; Sumach and Myrtle berries, and Hypocistis, of each two drams ; Acorn Cups and yellow Sanders, of each one dram ; red Roses three pugils : boyl them in Smiths Water, and a little Vinegar. With the straining, let the Reins be fomented hot.

Of the same Decoction you may make a Bath to sit in, adding more simples :

Take of Unguentum Comitissæ, and refrigerans Galeni, of each one ounce and an half ; wash it with Oxycrate, and anoint the Loyns therewith. Or to bind more,

Take of the Juice of Plantane and Blood-wort, of each two ounces ; Vinegar half an ounce ; Oyl of Olives six ounces ; boyl them till the Juices be consumed, then add of Sanguis Draconis, Mastich and Pomegranate peels, of each two drams ; Camphire half a dram, Unguentum Comitissæ four drams, Wax as much as will make a Liniment, put a little Vinegar to it when you use it.

Also a Plate of Lead full of holes worn about the Reins is good.

You must guard the Liver when it comes from sharp Humors with Epithems and Oynments.

When it comes from the stone and Gravel ; after Purging, Revulsion, and things that allay sharpness, mentioned ; you may use those things that may gently cleanse, as these that follow :

Take of Pills of Turpentine, with Rhubarb one ounce ; give half a dram in a morning, with two spoonfuls of Syrrup of Scurvy grass every other day.

But when he takes them not, give this Powder and Confection following :

Take of Liquoris two drams ; the four cold Seeds, of each one dram ; Purslain and Lettuce seeds, of each half a dram ; the Troches of Amber and burnt Harts horn prepared of each one scruple ; Sugar as much as all the rest ; make a fine Powder, give one dram with Mallows Water in which Quince seeds have been infused.

Take of Blanched Almonds, and Pine-seeds cleansed, of each half a dram ; Marsh-mallow seeds and Winter Cherries, of each one scruple ; Lettuce and white Poppy seeds, of each half a scruple ; Starch and Tragacanth, of each half a dram ; Liquoris two drams, Sugar six ounces : With Pellitory Water make a Confection in Morsels. Take it morning and evening half an ounce.

Stronger Diureticks are not convenient, for they will provoke the Flux.

And lastly, Vitriol Waters are good to stop blood, cool the Reins, and expel stones.

CHAP V.

Of the Ulcer of the Reins and Bladder.

CAUSES.

THe Ulcer of the Reins and Bladder comes of three Causes: from an Imposthume broken after Suppuration ; from the sharpness of Humors, such as causeth pissing of blood, which being violent and continual, doth ulcerate the parts ; or from a sharp stone that corrodeeth them ; the last is most usual, the former seldom.

SIGNS. Among the Signs, the chief is voiding of Matter with the Urine, which lasting long, doth shew that there is an Ulcer certainly in the parts which are employed about the Urine. But whether the Reins or the Bladder be affected, is known by the place of pain, whether it be in the Loyns, or near the Privities. Moreover, If Matter come from the Reins, it is better concocted, white, thin, and not stinking, because the body of the Kidney being fleshy, doth better concoct ; besides, the Matter is more abundant, and more mixed with the Urine, which is voided like milk, till after long standing it settle to the bottom. That matter which comes from the Bladder is little, and not much mixed with the Urine, nor so well concocted, but crude, of divers colours, and stinking, for that part being without blood, and having little heat, cannot concoct sufficiently : But often pure matter is voided without urine, from the neck of the bladder, and then there is a continual difficulty of urine, and pain in that part, which is not in an Ulcer of the Reins but by fits.

When the Ulcer is in the Reins, sometimes much blood is voided, which is hard to be stopped, and sometimes pieces of flesh and matter or blood, sometimes so big as they hardly pass, and cause pain ; but from the bladder come scales, or Skin, or Bran.

And from an old Ulcer of the bladder that is callous or hard, there flows that snotty flegm which we spake of in the stone of the Bladder.

PROGNOSTICK. As for the Prognostick : All inward Ulcers are dangerous, but these most, because of the most constant Flux of Humors to these parts ; for although the serous Humor hath a cleansing quality, yet here being mixed with other qualities, it doth not act in its natural condition ; and if evil, Salt and sharp Humors are mixed therewith, they will make and nourish an Ulcer.

New Ulcers of the Reins and Bladder are curable, old not.

They are incurable in old men, sometimes curable in young men, but with difficulty.

Ulcers that come from the Stone, and are maintained by it, cannot be cured before it be taken out.

The pain and Symptoms which accompany the aforesaid Ulcers, cause watchings, and consume the body.

CURE. The Cure is by cleansing, drying and heating, as all other. For this purpose use these following :

First, If there be a repletion, or inflammation in the part affected, let blood first in the Arm, then in the Hand.

Then purge often, to take away the vitious Humors that flow to the part affected, but with gentle things, as Cassia, Manna, Syrrup of Roses, Agarick, Rhubarb, made into a Bolus ; because in a moist form being drunk, they quickly go to the Uretors, and encrease pain.

You may give this Opiate following :

Take of Polypody of the Oak and Liquoris, of each half an ounce ; the four great cold Seeds, of each one dram ; Borrage and Violet flowers, of each half a pugil ; Fijubes six pair, Damask Prunes three pair ; small Raisins half an ounce, Senna one ounce and half : Infuse them all night in Barley Water ; then boyl and strain them : then dissolve of Manna one ounce and an half ; Cassia three ounces : boyl them to an Opiate, adding in the end half an ounce of Rhubarb in powder. Give one ounce at a time, once in a Week, two hours before meat. Or,

Take of Cassia two ounces, Manna one ounce and an half, the Mucilage of Fleabane seeds six drams ; the four great cold seeds, of each one dram ; the Juyce of Liquoris two drams : With Syrrup of Roses solutive make an Opiate.

These Opiates will be better, if you put *Mercurius Dulcis* to them, because Mercury doth cleanse and heal all Ulcers both internal and external.

Turpentine is purging and excellent in this Disease, because it cleanseth the Ulcer. And you must give half an ounce thereof washed at once with Powder of Liquoris. But it is chiefly good when the Urine is thick.

Avicen commends Vomiting for this Disease, *Cap. de Ulcer. Renum*, *AVomit* (saith he) is the best way to cure an Ulcer in the Reins, because it cleanseth and emptieth, and draweth the Humors from the part. But *Ætius* in his Chapter *de suppuratis Renibus* ; If (saith he) any man will take a strong Vomit every month, he will happily cure the Ulcer of the Reins, or any other evil that ariseth from them. Many Modern Physitians follow these ; some gave warm Oyl and Water one hour before meat : which only Medicine being often repeated, hath cured this Disease, as they say. But *Rondeletius* will have them vomit after meat, because then men vomit most easily ; and he gives warm Water and Oyl, and anoints the Stomach with Oyl of Lillies. But you must never give a Vomit, but to them that are easie to vomit ; for otherwise it would Inflame the Ulcer.

After due Evacuations and Revulsions, you must use Cleansers. The chief is, Whey taken every morning in abundance ; or thin Hydromel, six or eight ounces in a morning in ordinary drink, or the Decoction of Barley and Liquoris with Sugar, and give Water and Sugar for ordinary Drink. You may boyl in Hydromel, if you fear heat, the cold Seeds, Liquoris and Mallows. Asses milk doth not only cleanse with its Wheyie part, but heal with its Cheezy part ; but you must not give it in a Fever : or you may make this following Decoction to cleanse and ease pain.

Take of Marshmallow Roots half an ounce, Plantane, Agrimony, Maiden-hair and Mallows, of each one handful ; Mallows and Melon Seeds with their Husks beaten, of each half an ounce ; Winter Cherries six drams, scraped Liquoris one ounce, Barley one pugil ; boyl them to two pints. Dissolve in the straining three ounces of Honey, and two ounces of Sugar-candy, make a Julep. Take eight ounces every morning for ten days.

Those Medicines you give for the Reins or Womb, must be given in great quantities, lest they lose their vertue before they come there.

Instead of them all, you may use Mineral Waters of Allum and Iron, by the constant use whereof the heat is corrected, and the Ulcer mundified and healed.

Some commend the Decoction of China, Sarfa or Saxaphras, or of Guajacum given thirty days or more together with a Decoction thereof for ordinary Drink, and a thin drying Diet ; and lest the Bowels should thereby be too much inflamed, they give cooling Broths at night, and anoint the Reins with cold Oyntments. And this course is taken to dry up the matter, to purge and cleanse, especially in them that are flegmatick, or have the French Pox, and have neither Feaver nor Flux of blood.

But in any case you may use with more safety this following :

Take of Sarsaperilla three ounces, Shavings of Mastich Tree two ounces ; Saxaphras one ounce ; Shavings of Ivory and Harts-horn, of each six drams ; Fijubes and Sebestens, of each half an ounce ; Lignum Nephriticum four ounces ; Barley two ounces : Infuse them twelve hours in five pints of spring Water, boyl them to three pints, for six draughts to be taken twice in a day ; aromatize them with two drams of Cinnamon.

After the use of Cleansers, when you see by the decrease of the quantity or Matter in the Urine, that the Ulcer is ceased, as when it is white and even, and not filthy ; give drying, astringing, glutinating and heating things ; as these Troches following :

Take

Take of Bole-armenick, sealed Earth and red Coral, of each three drams; Gum Arabick and Tragacanth, of each half an ounce; with Agrimony Water make Troches of two drams a piece. Let him take one every morning with boyled milk, or the Decoction of Comphry.

The Troches of *Gordonius* are best of all, because they assuage pain and heat. Their Dose is two or three drams, with Hydromel or Barley Water, when you will cleanse more; or with Goats or Sheeps milk, when you will glutinate more.

For the same, use this following Opiate:

Take of Conserve of old Roses three ounces, Purslain and Plantane seeds, Myrtle Berries, Bole, sealed Earth, Sanguis Draconis, of each one dram: the shavings of Ivory, and Troches of Winter Cherries, of each half a dram: with Syrup of dried Roses make an Opiate, of which give the quantity of a Chesnut twice in a day.

You may make knitting Juleps thus:

Take of Comphry Roots two ounces; Plantane and Mous-ear, of each one handful; the tops of Malloes and Maiden-hair, of each half a handful; Liquoris half an ounce, Starch and Gum Arabick, Tragacanth and Bole, of each one dram, Lettuce and Purslain seeds, of each one dram and an half; red Roses one pugil: boyl them in Rain Water to one pint and an half. In the straining dissolve four ounces of Sugar, of Penides two ounces; make a Julep. Give eight ounces in a morning for ten or twelve daies.

Also the following Pills are good:

Take of Turpentine washed in Plantane Water one dram; Juyce of Liquoris and Gum Tragacanth, of each two scruples; Bole and Troches of Winter-Cherries, of each half a scruple: With the Juyce of Horse-tail make Pills. Let him take half a dram morning and evening.

They are stronger made thus:

Take of Marsh-mallow Roots and Comphry dried of each two drams; Gum Arabick, Cherry and Plum-tree, of each one dram; Olibanum and Myrrh, of each four scruples; white Poppy seeds, and Winter cherries, of each one dram and an half; Camphire two scruples, beat them finely, and add the weight of the third part of them all of *Antimonium Diaphoreticum*; and with Venice Turpentine make a Mass. Give one dram morning and evening long before meat, and after it, as a little of his ordinary Drink.

If Turpentine cause pain, give instead thereof Juyce of Liquoris dissolved in Pellitory Water.

And above all, new Milk from the Cow, with one dram of Bole-armenick that is true, every morning, is excellent, as *Forestus* says: And it is a secret of his Master *Helideus*, because it cleanseth and healeth the Ulcer.

Quercetan in his Dispensatory, commends the Water that is given for the Gonorrhæa, as good for the same, as well as other Ulcers.

Hartmannus commends an Opiate made of Conserve of Roses two parts, and the Powder of the Seeds of St. Johns-wort one part, given in the end of the Cure many evenings together. And also two or three grains of *Mercurius Dulcis* given every day in Plantane-Water.

But *Mercurius Diaphoreticus* is better, if well made, and as it were fixed; this cures all internal Ulcers miraculously.

In old Ulcers, the Decoction of round Birthwort in white Wine with Sugar, is very good.

Also observe what *Garcias ab Horto* says. That in *Goa* they give Aloes and Milk for Ulcers in the Reins and Bladder, or to such as piss filth, and it presently cureth.

Outwardly to knit give this Oyntment.

Take of Juyce of Plantane and Nightshade, of each four ounces; Oyl of Roses three ounces; Vinegar one ounce; Litharge finely powdered one ounce and an half; washed Cerafs half an ounce; fine powder of Tutty two drams; Sanguis Draconis one dram. Make them into an Oyntment.

Also you may use this following when there is no Inflammation:

Take of Oyl of Roses and Mastich, of each two ounces; Myrrh, Aloes, Sarcocol, Sanguis Draconis, of each one dram; Starch and Gum Tragacanth, of each four scruples; *Styrax calamita* one dram, white Wax as much as will make an Oyntment.

In the Ulcer of the Bladder it is proper to make an Injection twice in a day; first with Hydromel or Whey, or the Decoction of Barley with Honey of Rotes to cleanse; then with astringers and Binders made of Iron Water, in which Comphry Roots, Myrrh, Allum and Sarcocol, with Tragacanth have been boyled. But especially with the Troches of *Gordonius* dissolved in milk.

Fabricius Hildanus cured a great Ulcer in the bladder with this following Injection, and some few other Medicines, Obs. 69. Cent. 3.

Take of the Roots of Comphry one ounce ; Agrimony, Pauls Betony, Water Germander, Ladies Mantle, Sanicle, of each half a handful : boyl them to a pint. In the straining, dissolve two drams of Honey of Roses : mix them for an Injection.

And you must observe, that these Injections are not only to be made with a Syringe, because they will not enter into the Cavity of the bladder, the Sphincter Muscle being shut, but you must convey it in with a Catheter.

And because in these Ulcers the pains are usually great, you must through the whole Cure abate them with Anodines inwardly and outwardly. Inwardly with Syrup of Poppies, Laudanum, and the Troches of *Alkekengi* made for this purpose ; as also with Emulsions made of the cold Seeds and white Poppy seeds, with a little Syrup of Poppies, or with the often giving of Conserve of Marsh-mallow flowers.

Outwardly you may apply this Fomentation following to the Reins :

Take of Marsh mallow Roots two ounces ; Mallows, Pellitory of the Wall, Violets, of each one handful ; Linseed, Fenugreek, and Winter Cherries, of each three drams ; Camomel, Melilot flowers, and Water Lillies, of each one pugil : make a Decoction, with which foment the part, not with Sponges, because they have a saltness in them from the Sea.

After the Fomentation, you may apply this Liniment :

Take of the Oyl of Violets, and of sweet Almonds, of each one ounce and an half ; Oyl of Roses one ounce ; Musilage of Marsh mallow-seeds and Fenugreek, of each two ounces ; Saffron one scruple : make a Liniment.

Make this following Injection against the pain of the Bladder :

Take of Fenugreek and Quince seeds, of each one scruple ; steep them one hour in one pint and an half of Barly Water, after strain them, and make a moist Musilage ; of which add of Oyl of sweet Almonds two ounces, Honey of Roses strained one ounce : mix them for an Injection.

And if you inject warm Milk, it is excellent for the same purpose. In which if you dissolve the Troches of *Gordonias*, you will compleatly ease pain, and cure the Ulcer.

CHAP. VI.

Of Diabetes, or extraordinary Pissing.

Diabetes is a quick and plentiful sending forth of Drink by Urine ; after which there comes a violent Thirst, and consuming of the whole Body.

It is called Diabetes *apo tou diabainein*, from passing through, as Water through a Conduit pipe, which is called Diabetes. This Disease is also called *Dipsacos* from the unquenchable Thirst, and the Piss-pot Dropsie from the continual making of Water. It is seldom seen, for *Galen* in 6. de loc. aff. cap. 3. saith, that he saw it but twice.

CAUSE. The next and immediate Cause of this Disease from *Galen*, and all his followers, is held to be a hot distemper of the Reins, which makes them draw Water violently from the Veins, and send it to the bladder, being not able to contain it themselves : the Veins being drawn dry, suck from the Liver, the Liver from the Guts and Stomach ; hence comes a continual Thirst after drink, which as soon as it is taken, it is forthwith carried from the Liver and Veins into the Reins, where by its quantity it stirreth up the Expulsive Faculty, and burdening the Retentive Faculty, it is sent to the bladder.

Some suppose that this cause is insufficient, because the hot distemper of the Reins is an usual Disease, but Diabetes is very rare ; therefore there must be something else that is less usual, namely, a sharp or salt matter in the Kidneys, either of Choler or of Flegm, which doth continually provoke the attractive vertue of them ; as in Cholerick Feavers there is a Thirst which cannot be quenched from the Cholerick humor which is fixed to the Coat or Tunicle of the Stomach, or from Cholerick Vapors sent from some adjacent part into the stomach, by the motion of some putrid Choler which lodgeth there. This Opinion is probable ; but we think good to add thus much to it, That the Kidneys alone are not affected in this Disease, because Choler and other burnt Humors are first bred in the Liver ; and therefore they cannot be in any quantity in the Kidneys, but the Liver must participate of them. And if we may reason where Nature seems to be silent, we can say that there is a venomous quality concurring for the producing of this Disease. For that kind of Serpent called *Dipsacos* found in *Lybia*, when it bites any man, doth send into him such a poyson as begets an unquenchable Thirst. The like kind of venom may be bred in our Bodies by a peculiar corruption of some humors, which may cause such a Thirst ; for *Galen* testifieth, that divers kinds of poysons may breed in our Bodies. And if such a kind of poyson may be bred in our bodies as may cause a detestation of

Drink,

Drink, as in *Hydrophobia*, in which the Patient cannot endure the sight of Water, or any Drink, why may not there then be produced another poyson, which hath the contrary quality, to cause a great and unquenchable Thirst? And hence may be the reason why this disease is so rare; because this kind of poyson is seldom bred, but Choler and salt flegm, and the Diseases from thence are ordinary. And as the disease called Dogs Appetite, which is compared to this for the unsatiable desire of meat, is ascribed by the wisest Physitians to an occult quality; so this unquenchable thirst may be said to come from a peculiar and hidden quality.

SIGNS. The Signs of this disease are clear from what hath been said; as an extraordinary making of Water, an unquenchable Thirst, and a sudden pissing forth of what is drunk. a decay of the whole Body; for the moisture which would nourish the body, is pished forth with the drink. And though there be often a large Evacuation of Urine in sharp Feavers, and other cases, yet that is not to be called Diabetes, because the aforesaid Symptoms, as great Thirst and Consumption of the Body are not joyned therewith.

PROGNOSTICK. The Prognostick of this disease is deadly, for it is incurable, except it be in the beginning thereof; for it presently brings a Consumption. In old men it is more dangerous; and when it comes after inordinate Lechery or Agues.

CURE. The Cure is wrought by allaying the hot distempers of the Kidneys, and by strengthening them, by thickening the Humors that flow unto them, and by opposing the malignant quality thereof; all which may be done with these Medicines following:

In the beginning of the disease while there is strength, you may open a Vein, for to repel or pluck back, and cool the Humors; but it must be done divers times, and but a small quantity of blood taken away. But if the strength be decayed, or if this follow another disease, Phlebotomy must not be.

You must give Mollifying and Asswaging Clysters to draw forth the Excrements, made thus:

Take of Lettuce, Purslain, Mallows and Plantane, of each one handful; cleansed Barley and red Roses, of each one pugil; make a Decoction to one pint and an half. In the straining, dissolve of Diaprunes simple six drams: Honey of Roses, and Sallet Oyl, of each two ounces; make a Clyster, and use it often.

You may also give a gentle Purge with Cassia, and Pulp of Tamarinds, or the decoction of Plantane, Purslain, Lettuce, Tamarinds and Myrobalans, with Syrup of Roses.

Some commend Vomits made of the decoction of Rhadish Seed, and Dwarf-Elder with Oxymel, which doth Evacuate and draw from the Uretors.

To correct the Distemper of the said parts, and to thicken the Humors, Juleps made of the Waters or Decoctions of Lettuce, Purslain and Plantane, with Syrup of Myrtles, Quinces, and the like, and Syrup of Poppies, in a small quantity, adding the Powder of Diatragacanth frigid, and the Troches of Sealed Earth, and the like.

Or to astringe more, make them thus:

Take of Comphry and Plantane Roots, of each one ounce; Plantane Leaves one handful, Pomegranate Flowers and yellow Myrobalans, of each one dram; Plantane and Purslain seeds, of each half a dram; red Roses one pugil; boyl them to a pint. In the straining, dissolve of Syrup of Quinces three ounces: make a Julep for three Doses.

For the same end you may make a Powder, or an Opiate thus:

Take of Plantane, Purslain, and Coriander seeds prepared, and red Roses, of each one ounce; prepared Coral, Bole-Armenick, prepared Pearl and Tormentil roots, of each one scruple; Nutmeg half a dram: mix them into Powder.

Take of old Conserve of Roses four ounces; Bole, prepared Coral, and burnt Harts horn, of each one scruple: With Syrup of Quinces make an Opiate.

Erastus highly commends the Syrup of Comphry Roots and Sloes, which he saith he used with good success in these Diseases.

Also Narcoticks or Stupefactive used wisely, are very good; as new Treacle, Syrup of Poppies and Laudanum.

If it continue long, Sheeps milk, Cow or Asses milk are excellent, if you first consume the Whey thereof, with often quenching flints therein, and he may use it in the morning, as we shewed in other Cures.

Sweating is commended by Authors, by which means the serous Humors are drawn outward. But it is to be mistrusted, because it is very like to purge by Urine, and encrease the distemper of the Bowels. But if it be used at any time, it must be of the mildest sort, as of Roots of China, Sarsa, Endive, Borrage, Sorrel boyled in Water, or for those who are consumed in Chicken Broth; but we think it safer to provoke sweat by outward means; as by a vapour from some convenient Decoction in a wooden Instrument.

Such Sudorificks as are prescribed in malignant Feavers, are excellent, especially if Spirit of Vitriol be in them, to quench Thirst, stay the Flux, and resist the malignity.

For drink, let the Patient use Iron'd Water with sharp and astringent Syrups, or a decoction of Sloes, and the inward Bark of an Oak; by which Medicine even alone, *Erastus* saith, That he cured this disease in a Boy.

Outwardly, Apply a Fomentation to the Loyns made of Sorrel Roots, Plantane, Pomegranate-peels, Sumach Seeds, and the like, with a little Vinegar; or, which is most proper, make a Bath of the same decoction to sit in.

And anoint the part with Unguent of Roses, Sanders and Comitiffa mixed together, or this following:

Take of Oyl of Roses and Myrtles, of each one ounce; red Sanders, red Roses, and red Coral, of each one scruple; Juycce of Plantane one ounce; Wax as much as will make an Oyntment.

Then you must allay the Symptoms that accompany this disease; as thirst, watching, consumption, and the like, by their Remedies mentioned in their proper Chapters.

CHAP. VII.

Of Pissing of the Bed: of Involuntary Pissing, or not containing of Urine.

THe not holding of the Urine consists in the hurting of the retentive action of the bladder: as Diabetes, or extraordinary pissing comes from the hurt done to the attractive faculty, and Dysuria from the distemper in the expulsive: so this comes from the Disorder in the retentive Faculty of the Bladder. This comes sometimes to people awake, and then the disease is worse; sometimes to them asleep, and then it is less, because then the Animal Functions are exercised less freely. And this in time of sleep comes two ways, either from weakness and looseness of the Sphincter Muscle of the bladder, as in sucking Children, weak people, and sometimes in them of years; or from the hurt of the Imagination: for many do piss their Beds, either from too much drink, or from the exquisite sense of the bladder, and the urines sharpness, with some consent of their will, when they dream they are pissing against a wall, or other place; and they are so accustomed to it, that it is done without any distemper either of the bladder or its Sphincter; nor are they to be cured with Medicines, but by change of their foolish Imagination, as Children by Whipping; or in those of years, by adorning those places which they dream they piss upon with some costly things, and shewing them often.

The true cause of this is in the Sphincter Muscle, which suffers either from its self, or by consent from other parts.

It comes divers ways by consent, as when the whole body is weak, and the vital heat spent, as in dying men, or when the whole body, or half of it is taken with the Palsey, or those branches of Nerves which come from the *Os Sacrum* to the bladder: sometimes the looseness of the Muscle comes from the pain only, and nearness to other parts affected; as in Women with Child, from the swelling and pain of the Womb, and in the great Disease of the straight Gut.

The Sphincter muscle suffers divers ways by its self, as when it is wounded, as in cutting for the Stone or in deep Ulcers, which hinder its contraction and shutting. But the chief and usual cause is, a cold and moist distemper, which is most fit to weaken and make loose the part. Which is produced of a cold and moist Native temper, in Youth, old Age, Women, and the diseases of the whole body, or some parts thereof, coming of a moist and cold distemper: to these you may add external causes often mentioned.

But here we may dispute how contrary effects may be produced of the same cause: for *Hypocrates* in *Coac.* says That stoppage of the urine comes of a cold cause, in these words; *A stoppage of Urine coming of a cold cause is worst of all*: now not holding and stoppage are contrary. We must answer, That when a cold Distemper doth only hurt or abolish the sense of the bladder, there may be a suppression of Urine, because the bladder cannot be sensible of provocation to expel urine: but if the motive faculty which is in the Sphincter muscle be hurt by reason of the looseness of it, the urine cannot be retained.

SIGNS. The Signs of this Disease, either shew this disease to be by consent, and these must be taken from the diseases before mentioned, which are apt to produce this not holding the urine; which if you find, you may conclude, that the disease comes from them: but if they be absent, then you must bethink your self of the propriety of the disease to the part, which will be easily discovered if it come from a wound and Ulcer, or the like disease of the Sphincter: but if neither of these appear, you must consider of the cold and moist distemper of the part; and this is known by the causes both internal and external, and by the effects which depends upon them, as softness of the whole body, whiteness,

ness, looseness of the Nerves and Privities, Childhood, Age, evil Flegmatick Concoction, and the like.

PROGNOSTICK. This Disease is incurable in old men, by reason of their great moistness, and the loss of vital heat, which cannot be repaired.

In an acute Feaver, i. voluntary Pissing is very dangerous; for it comes either of a Delirium, or from a great destruction of all the faculties which followeth the extinction of the natural heat.

In Children it is cured when they grow elder, and the superfluous humidity is by degrees consumed, and the parts that were loose, are more knit; But if they be not cured before twenty five years of age, they are incurable.

CURE. The Cure is wrought by amending the cold and moist distemper, and looseness of the Sphincter muscle; but that which comes by sympathy from other Diseases, must be cured by the removing of them; as also that which comes from Wounds, Ulcers, and other manifest diseases depends upon the Cure of them. Therefore we shall lay down a way of Cure proper both for Children and Men, provided that the Physician be skilful in the choyce of his Medicines, to give the gentlest to Children, and that he encrease and diminish the quantity according to the Patients age.

First, Here is little use of Phlebotomy, because it comes from a cold distemper and flegm; except there be a general Plethory in the whole body, being youthful.

But Purging is always necessary in this Disease, made of things that purge Flegm, mixed with some astringents that are not onely Alterers, but Purgers, as Rhubarb and Myrobalans, and the like.

After, to dry up the matter that is Flegmatick, and to knit the part, you may use Powders, Opiates, and Physick Wines, and the like, made thus:

Take of Cypress Nuts, and Myrtles dried at the fire, shavings of Ivory, Coriander seeds prepared, red Coral and Amber, of each two drams: Spodium or burnt Ivory one dram; Cypress Roots and Galangal, of each half a dram: With the Syrup of Citrons make an Opiate, of which let him take the quantity of a chefnut morning and evening. Drink after it a little red Wine.

Or you may give the aforesaid Powder from half a dram to a dram, with red Wine twice in a day, long after and before meat.

Take of Comfry Roots half an ounce; Cypress Roots and Galangal, of each one dram; Plantane, Horse tail and Five leaved Grass, with the Roots, of each one handful; Cypress Nuts, Acorn cups, of each four scruples; Rue seed, Agnus castus, Frankincense, and Ivory shavings, of each half a scruple; red Roses one pugil, red Wine four pints. Infuse them twenty four hours, strain them through an Hippocras Bag, adding of Cinnamon half an ounce: Sugar as much as is sufficient to make a Claret, of which let him take three or four ounces twice in a day.

Many proper things are propounded by Authors, which do conduce to the Cure of this Disease. Galen in his Book of Local Medicines, and of things easie to be prepared, commends the Brain and Stones of a Hare burnt. Also a Snail burnt with its shell, given to Drink: The Modern Physicians give Hares dung, powder of burnt Mice, the Hoofs of Hogs burnt, the ashes of Dates stones, roasted Hazel Nuts, powder of Egg shells. But above all, are commended the powder of Agrimony, and the inward Skins of Hens Gizzards dried, given either by themselves, or mixed together with red Wine.

Solenander witnesseth, That he saw happy success in a Medicine invented by one Gilbert Holland, a Roman Physician: He took the Throat of a Cock, and dried it at the fire till it would powder. He gave it before Supper in red Wine, or with Oxycrate for some days together.

In people of years, Sweating Decoctions used twenty days together, are good to dry the Body, made of Guajacum and Saxaphras; or Stuphs, Hot-Houses, Brimstone Baths, and thole of Nitre.

For his drink, let him take sharp red Wine without mixture, or with a little Ironed Water.

They who can drink onely Water, may take Ironed Water, or that in which Coriander seed, or a little Mastich hath been boyled. Or lastly, for the better astringing, let them take Water in which new Tiles have been quenched, and boyl their meat with the same. But they must drink but little, especially at Supper: And let the Patient make water when he goes to bed, and be raised again at midnight, and in the morning, for the same purpose, and this will alter custome.

Outwardly to the Privities, apply warm, strengthening and drying things, thus made:

Take of Elicampane Roots, Calamus Aromaticus, Acorns and Cypress Roots, of each half an ounce; Mints, Sage, Organ, Calamints and Wormwood, of each half a handful; Cypress Nuts, Myrtles, Galls and Pomegranate flowers, of each one dram; red Roses one pugil: boyl them in equal parts of Smiths Water, and red Wine to two pints. In the straining, dissolve of Sali and Allum of each one ounce. Foment the Privities and Perinæum warm morning and evening.

Or you may make a bath of the same things in larger quantities.

After the Fomentation, anoint the same parts with an Oyntment of Oyl of Foxes, Rue, Flower-de-luce, Unguentum Martiatum, Aregon, with Powder of Mastich, Cypress and Myrtles.

Or you may use Storax Liquid, or Indian Balsom, dissolved with a little Wine; or for rich folks, Musk and Civet dissolved in Muskadel.

Or apply this Plaister to the parts aforesaid :

Take of *Labdanum* and *Mastich*, of each two drams; *Wood of Aloes*, *Styrax calamita*, *Cinnamon*, *Turpentine*, of each one dram; *Myrtles* and *cypress Roots*, of each half a dram; *Juyce of Mints* and *Hors-tail* drawn with red Wine, as much as will make a Plaister.

Lastly, If there be a defluxion from the head, which causeth the weakness; you must divert by Errhines, Masticatories and Causticks to the Neck or arm, and other Remedies mentioned in the cure of the Catarrh.

CHAP. VIII.

Of stoppage of the Urine and Strangury.

THe stoppage of the Urine is called by Authors *Ischuria*; but when little is voided, it is called *Stranguria*: although this word be larger, and comprehends all dropping of Urine; but if it be without pain, and the Urine come by drops with straining, it is a small *Ischuria*; but if it be with pain, it must be referred to *Dysuria*, or scalding of Urine.

Therefore *Ischuria*, or a whole suppression of Urine, is two-fold, namely true, when the bladder is full; or Spurious, when the Bladder is empty, and nothing comes to it from the Reins.

CAUSES. A true *Ischuria* comes of three Causes: The first is, when the sense is lost in the Bladder, by reason of the Palsy, and obstruction of the Nerve that comes to it, or by the eversion of the Spirits, by whose defect it comes, so that the bladder feeleth no pricking to expel, as in dotings, and sleepy Diseases.

The second cause is, a cold distemper of the bladder, coming from internal or external cold Causes, which dull the sense of the bladder, and weaken its expulsion.

The third Cause is, the narrowness of the Neck of the Bladder, which will not suffer the Urine to pass. *Galen* gives three causes of this, 1. *de loc. affect. cap. 1.* either the muscle is swollen by an Inflammation, Schirrhus or Imposthume, or the like; or there is a little flesh grown in the passage, by reason of a former Ulcer; or there is a hardness from some thick Humor of long continuance. Also the Passage is stopped by the Stone, by a Crude and thick Humor, by a clod of blood or matter.

Besides, The Urine may be stopt by a Tumor in some part nigh to the neck of the bladder, from the swelling of the Womb, from the Excrements in the strait Gut, or from the Hemorrhoids growing big.

Sometimes it comes from the long holding of the Water, by which the bladder is so stretched, that it cannot contract it self to expel urine, by which stretching, the passage is stopt and contracted. Now the bladder is filled by urine too long detained, two ways. First, when a sound man by urgent occasions in the Market, Senate, Church, Banquet, Running, and the like, holds his urine for want of opportunity to void it, which stretcheth it so, that it cannot again contract it self; and the pricking of the urine is not perceived by reason of its dull sense from the distemper of the Nerves which come thither, when those Nerves which are for the contracting of the muscle are well and sound, which *Galen* saith befel one, 6. *de loc. aff. cap. 4.* when the Back-bone was strained.

This is called a bastard *Ischuria*, in which the urine is stopped, and the bladder empty, because no Water descends into it. There is a two-fold cause why no urine comes to the bladder, either because the Kidneys do not draw that whereof the urine is made, and send it down; or because the Uretors will not receive it: therefore either the attractive or expulsive Faculty of the Reins is hurt. The attractive or drawing Faculty is hurt by the Error of the Object, or in its self. This is from a strong distemper, especially cold, or from some stoppage in the Reins, or in the Emulgent Veins. These Obstructions proceed from the stone, thick flegm or matter that falls down thither. The obstruction of the Emulgents comes sometimes from too much blood, or serous matter; A story whereof we have in our Observations, *Observ. 1. Cent. 1.*

By the fault of the Object, the attraction of the Reins is hindered, when the serum or water is spent, as in burning Feavers; or sent to other parts, as in a Dropsie.

The Expulsive Faculty is hurt by the same causes, namely, distemper, the stone, clods of blood, matter, or gross Flegm or Inflammation.

The Uretors do not receive the Serum, nor send it to the Bladder, by reason of Inflammations, or Obstruction by the Stone, a clod of blood, matter, or thick flegm, or by a compression from some humor in a part adjacent.

We must observe, that both Kidneys or Uretors are affected, for the total stoppage of urine; for if one be open, the urine may pass.

The aforesaid Causes, if they be violent, may make a total Obstruction of urine, which is called *Ischuria*; but if they be small and remits, they make only an evacuation in part, which is called a Strangury; and both Diseases come from the same cause, different in degrees.

A true *Ischuria* is known by the weight and enlarging of the lower part of the belly, and by a Tumor in form like the bladder.

The Causes are known by things foregoing, or that accompany it: For if it come from too great a quantity of urine, which hinders the contraction of the bladder, the Patient will tell you how that he forbore to piss by reason of long riding, or the presence of some people of Honor, and that before he never had any distemper in those parts. But if he hath had a Delirium, a Palsy, or the like, you may refer the stoppage to them.

The stoppage which comes from Tumors of those or the adjacent parts, or other Causes before mentioned, will be known by their proper Signs.

The stoppage of passage of the bladder is known by a searing Candle put in, or a Catheter; which if they cannot pierce, but are stopped by the way, shew that there is either a Stone or a Caruncle, or a little Excrescence of flesh, or the like in the passage.

And these are to be distinguished; for if it be a stone, there was formerly a pain of the Reins whether it came from the bladder or Reins. If a Caruncle, there was a stinking Gonorrhœa, or running of the Reins, or an Ulcer in the passage of the Yard that did long run.

And lastly, if there be a clod of blood, or matter, or flegm, you shall see some part of it come out of the Yard, or it will stick to the Catheter.

A bastard *Ischuria* is hence known, That there is neither Extension nor Tumor, nor weight about the Privities, but rather a kind of emptiness thereabout; there is no desire to piss, no tickling in the bladder, and no urine made, there went before the signs of the stone in the Kidneys or Uretors, or of Inflammation, or great fulness, or much drink was taken, which was not plentifully pissed forth: whence the Veins might be swollen, or else there is a burning Fever, or a Dropsie, which signify the revulsion, and turning away of the Water or serous matter.

PROGNOSTICK. The stoppage of Urine is very dangerous, and if it continue above seven days, it is deadly: for the Serum being retained in the Veins, doth oppress the Liver, infect the Blood, and run into the whole Body; it brings danger of choaking, and being carried to the brain, produceth a Coma, or kind of Lethargy.

The stoppage of urine which comes from the back being wounded, or by a fall, or straining of the Vertebra or back-bone, is incurable.

If the Patient stink of Piss at his mouth or nose, it is deadly.

If a Tenaismus or needing follow a suppression of urine, it is death in seven days. And also if the Hiccough follow upon it.

CURÉ. The Cure of the stoppage of urine, whether it be total or partial, must be by aiming at the Causes. And first, that suppression which is called spurious, and depends upon the diseases of the Reins or Uretors, is to be found in the Cure of the Inflammation, pain, or stone of the Kidneys; that which comes from the fulness of the Emulgent Veins, is to be cured by large bleeding, and Medicines that purge Water. A true *Ischuria* is cured by things that take away the cause: and first, if it come from Inflammation of the bladder, or parts adjoining, you may find Medicines for it in the Cure of the Inflammation of the bladder.

But if it come from a stone in the neck of the bladder, you must use these Remedies following.

First you must lay the Patient upon his back with his Thighs lifted up, and then shake him soundly, to make the stone return into the bladder: And if this will not do it, use the Catheter. But if the stone be in the passage of the Yard you must labour to get it out with your fingers, gently stroaking it to the end of the Yard; and you must put the yard into warm Water or Milk, or the Patient into a Bath to open the passage. But if you can neither get it out nor in, Practitioners say, that you may bind the yard on both sides of it, and take it out by Incision.

The Obstruction of the neck of the bladder, which comes from Inflammation, will be cured with the proper Medicines against Inflammation. But in the mean while, if the Urine be there long detained, you may gently convey in a searing Candle dipt in a little Oyl of sweet Almonds, avoiding the Catheter, lest it cause pain, and so encrease the Inflammation.

If the stoppage of Urine comes from a Caruncle, you must take that away. This is done by proper medicines conveyed thither with a Wax Candle, which must be done by a skilful hand. And if the

the Caruncle swell and stop the passage, necessity will constrain you to use the Catheter to draw away the urine, although there be danger lest the part disturbed should swell more. But you must first make use of Revulsions, by bleeding, vomiting, and Repellers to the Privities, to take away the Inflammation of the Caruncle, that way may be made for the urine.

If suppression of the urine come from thick flegm, first it is good to purge with a Bolus made of Diaphœnicon and Rhubarb, and then to give Turpentine often with Powder of Liquoris; afterwards a Decoction of opening Roots with Oxy-mel, or *Syrupus Bizantinus*; not omitting in the mean while Clysters, Fomentations and Baths that mollifie and open. And all those things will be proper which were propounded for the dissolving and expelling of the stone.

And among the rest, Experience hath taught us, that these following are excellent:

Take of Benedicte Laxativa half an ounce, the Troches of Myrrh two scruples, the Decoction of Savin three ounces. Mix them for a potion. By this a Woman was presently cured of the stoppage of Urine.

If there be abundance of Flegm in the whole body, or in the Head, after blood-letting, from the beginning of the Cure, you must purge with an Apozeme three or four days together.

Also the Julep mentioned in the Cure of the Stone of the Kidneys, made of the juyce of Pellitory of the Wall, Sea fennel and Lemons, with Oyl of sweet Almonds.

The Syrup of Rhadishes, of *Fernelius* his prescription, given two ounces at a time, is very excellent.

Dodonæus in Observat. Cap. 48. Reports of one of fourscore years of age, that was cured of a stoppage of urine with dropping, by a Lixivium or Lye made with ashes of Egg-shells and Rhenish wine once taken.

Arnoldus Villanovanus commends the Wine of Winter Cherries in this following History, mentioned in his Book of Wines. There was in my time a Cardinal, who had not pissed for four days, who was desperately swoln; and cured by the advice of a weak Physitian with Winter Cherry Wine, and he voided as much Urine as would fill a Bason. By that only experiment, that Physitian being poor, and of small parts, became a great rich man. Many God bestows his Blessings upon, his ways are unsearchable. This kind of Wine, as *Arnoldus* shews, is made by taking five, or seven, or more Winter Cherries, and beating them with good Whitewine, and then straining them, and giving them to be drunk.

Hog-lice also beaten with Whitewine, and given to be drunk, are good for the same.

The Oyl of Scorpions, as *Mathiolus* prescribed it, given five or six drops in broth or other Liquor, doth powerfully provoke urine.

The often use of the Crystal Mineral doth provoke urine, especially when you fear Inflammation, which is often caused in the inward Skin of the Bladder, by the stoppage of urine.

The Spirit of Salt doth it better.

The Vulgar Medicine of the Juyce of Pellitory of the Wall refined four ounces, with half an ounce of Sugar, doth very much good. You may mix therewith *Sal Prunella*, or Spirit of Salt.

If these stoppings from Flegm do often return, there is nothing better than Brimstone and Nitre Bath waters; which both by drinking and bathing, do easily dissolve, cleanse and consume that slimy matter.

A certain Nobleman having his Urine suppressed many days, after other Medicines taken in vain, by this following Clyster kept two hours in his body, was cured.

Take of the Roots of Smallage, Parsley, Butchers Broom, Dogs-tooth, Sparagus, Mallows and Marsh-mallows, of each two drams; Pellitory of the Wall two handfuls; Annis, Fennel, Dill, Caraway, Carrot, Ameos, Carthamus, Rue and Cummin seeds, with Bay-berries, of each half an ounce; Camemel, Melilot, Dill and French Lavender flowers, of each two pugils: boyl them in Whitewine to half. In a pint of the straining, dissolve of fresh Butter four ounces; Honey of Roses two ounces, red Sugar one dram, Benedicte Laxativa half an ounce; one Egg, the Oyl of Nuts, Dill, Lin-seed, of each two ounces. Make a Clyster.

The Chymists brag of their Medicines against this Disease; namely, Spirit of Salt, Vitriol, Sulphur and Turpentine, which they give to half a scruple in convenient Liquors, or Chicken Broth.

They commend also the Salt of Tartar, and of Bean Stalks, given from half a dram to a dram.

And for Revulsion of the Humor from the part affected, they give Vomits, and they boast that very many have been cured thereby.

You must all the time of the Cure use Liniments, Fomentations, Cataplasms and Baths, and other external things which must be the same that were before mentioned for the pain in the Kidneys: Among the rest, a Cataplasm made of Pellitory of the Wall fryed in Butter, or Oyl of Scorpions, is excellent. Also a bladder half full of Oyl, which will be of more force, if you boyl Spanish Flies, called Cantharides, therein.

Commonly they apply a Cataplasm of fryed Onions with Hogs Grease to the Loyns and Privities with some Eggs.

But raw white Onions beaten with Oyl into the form of a Cataplasm, do far better, if they be applied to the Kidneys, Uretors and Privities.

A Cataplasm made of beaten Rhadishes, is good for the same.

When the Ischuria comes of clotted blood, you must dissolve it. For this purpose use Troches of Amber, the Rennet of a Kid or Hare, Mummy, simple Oxymel, and Oxymel of Squils, Syrup of Vinegar, and the like. Outwardly a Cow-turd doth wonders, according to the Judgment of Learned *Aetius*, Terr. 3. Serm. 2. Cap. 27.

Lastly, When the Urine is stopt by Matter, or comes only dropping, you must use Cleansers and Cutters, such as were set down in the Cure of the Ulcer of the Reins and Bladder.

CHAP. IX.

Of Dysuria, or Scalding of the Urine.

BY the word *Dysuria*, we understand all painful pissing, which the Modern Writers call Scalding of the Urine. Many Authors make it all one with the Strangury, because there is painful pissing; but they will have it differ from *Dysuria* in this only, because in *Dysuria* there is a greater quantity of Urine made, than in Strangury, which is therefore called pissing by drops. But we had rather for Instruction sake, call that Strangury which is pissing little without pain, and put them in one Chapter, because they must be cured both the same way; and to treat here of all painful pissing under the name of *Dysuria*, being they come all of the same Causes, and are cured by the same Medicines.

CAUSES.] The immediate Cause of painful pissing is a solution of continuity in the Sphincter Muscle, or the passage of the Bladder: and therefore whatsoever can cause a wound in those parts, may cause heat of Urine.

The most usual Cause is sharpness of Urine, sometimes without mixture of other humors, which is caused by a hot distemper of the Bowels, or of the whole Body or by eating of hot and sharp Meats; but it often comes by mixture of hot and sharp Humors, as Choller and salt Flegm. Sometimes matter coming from the Reins or Bladder, being ulcerated, may cause such a sharpness of Urine. Sometimes a white Humor like Milk comes plentifully forth with the Urine, and causeth scalding, which is commonly thought to be matter from the Reins; but *Seminertus* denies it for this Reason, For if all the Reins were turned into matter, they could not afford so much as is many times voided at once every day for a week together. And he supposed that it comes from an evil Concoction, first of the Stomach, then of the Liver, because the error of the first Concoction cannot be amended in the second; hence the Chylus, and then the Blood remains crude, not freed from its Salt and Tartar-like parts, which ought to be separated in the first Concoction, and they being after sucked into the Reins, and sent to the Bladder, cause pain in pissing. He saith, that he was brought to be of this Judgment, because a Learned man, who was troubled some weeks with heat of Urine, which he voided plentifully with half an Urinal full of such white matter, was (when nothing else could assuage these violent pains) cured only with drinking of Sack.

Also a stone in the Bladder, if it strike against the Neck of it in time of pissing, causeth pain; and also large Gravel which grates upon the passage of the Urine.

Also Inflammation, or an Ulcer of those parts, causeth heat of Urine, because the sense is more quick at that time; and though the Urine be well tempered, it is troublesome; as we see externally how the least touch is offensive to a sore place. So in a Gonorrhoea, as long as the Parastates are inflamed, there is a continual heat of Urine.

DIAGNOSTICK.] The Knowledg of this Disease is evident, for the Patient is forced to roar sometimes with pain. But you must distinguish the Signs of the Causes thus:

If it come from sharpness of Urine, it will be thin and high coloured, sometimes like fire; or there will be visible mixture of Choller, Flegm or Matter; the Bowels will be distempered, or the Patient hath eaten hot and sharp meats, and endured great heat.

The Stone and Inflammation of those parts are known by their proper Signs.

PROGNOSTICK.] As for the Prognostick. This Disease of it self is not dangerous, but very painful: and according to the cause, it is sometimes hard to be cured, especially in old men, which if they be decrepit, die thereof; and in all ages if it continue long, it ulcerateth the neck of the Bladder.

[CURE.] The Cure is, first by taking away the Cause. And therefore if it come from the Stone, Inflammation or Ulcer, you must cure them according to the Rules in their proper Chapter. But these things after mentioned will be good to allay the Symptom.

They who have it from the sharpness of Urine mixed with hot Humors, are to be cured by the Medicines following.

And first, Phlebotomy is good to correct the distemper of the Liver and other parts. This must be often according to the Plethory and Inflammation; first from the right Arm, to evacuate and reveal the matter; and after in the lower Veins, to derive it from the part affected; for which cause, *Hypocrates*, and *Galen* who followed him, do command the lower Veins to be opened in Diseases of all parts beneath the Reins.

Purging also is good, of mild and gentle things that cool, lest the heat be encreased. Therefore do not give any thing but a Bolus of Cassia alone, and indeed that is best. But you may make it cooler, if you add the Pulp of Tamarinds. Or you may mix it with the Decoction of Lettuce, Purslain, and Mallow Tops, and give it many days together, that the sharp Humors may be brought back from the part by stool. But if you desire to purge more by reason of the plenty of Humors, use this following.

Take Lettuce, Purslain, Plantane and Mallow-tops, of each half a handful: Tamarinds half an ounce, yellow Myrobalans one dram: boyl them to six ounces, and add to it strained one ounce of Cassia: strain it again, and then add one dram and an half of Rhubarb infused in Lettuce Water, with yellow Sanders, Manna, and Syrup of Roses, of each one ounce. Make a Potion.

In an old Dysury, the purging Opiate prescribed in the Ulcer of the Bladder, is very good.

A gentle Vomit is excellent, for it reveleth from that part affected, and hinders those inconveniences which use to come by purging: Therefore give it once or twice in a week to them that can vomit easily.

By often Clysters, the sharp Humors are not only brought to the Guts, and sent out by degrees, but the distemper of the parts is qualified.

They are made thus:

Take of Marsh-mallow Roots one ounce: Mallows, Violets and Lettuce, of each one handful: Water-Lillies and cleansed Barley, of each one pugil; boyl them to a pint: Dissolve in the straining, Cassia new drawn one ounce, one Egg, and two ounces of Oyl of Violets. Make a Clyster.

The Musilages of Seeds of Marsh-mallows, Quinces and Fœnugreek, may be mixed with Clysters to assuage pain.

But Clysters of Milk only, or mixed with the aforesaid thing, use to be so powerful to allay heat and pain, that we have known some of long continuance cured by them alone, and a Bath, whereof we will speak hereafter.

Experience hath found out many things good to be taken at the mouth, to allay heat, and to correct the distemper of the parts. The chief are these following:

Take of Water Purslain Lettuce, Roses and Water Lillies, of each one ounce: Syrup of Violets and Water-Lillies, of each six drams: Sal Prunellæ one dram. Mix them for a Julep, repeat it often.

Take of Marsh mallow Roots one ounce. Lettuce. Endive, Purslain and Mallow tops, of each one handful: Melon, Gourd, Mallows, Lettuce and white Poppy seeds, of each three drams: Fijubes and Sebestens, of each six pair: Violets, Roses and Water Lillies, of each one pugil: boyl them in a pint and an half of white Wine, Dissolve in the straining, Syrup of Violets, Fijubes and Poppies, of each one ounce and an half: Sal Prunella half an ounce: make a Julep for four Doses to be taken twice in a day.

Emulsions also may be used, although they be Diuretick, because they cool and cleanse the passage of the Bladder. Make them thus:

Take of the four great cold Seeds, and white Poppy-seeds, of each three drams; sweet Almond, blanch-ed and infused in cold Water half an ounce: beat them in a stone Mortar, pouring on them by degrees the Decoction of Barley, Liquoris, Purslain, and Mallow tops one pint and an half: make an Emulsion for three Doses, adding to each Dose one ounce of the Syrup of Violets, and one dram of Lapis Prunellæ; and if the pain be great, add a little Syrup of Poppies, and one dram of Gum Arabick in powder, or the Syrup of Marsh Mallows, according to Fernelius, or of Musilages.

You may make Broths thus:

Take of Marsh mallow Roots half an ounce, Mallows one handful; Liquoris half an ounce: Quince seeds one dram: boyl them with Chicken Broth: make it often.

The Whey of Goats Milk is very good given in great draughts, as we said in the hot distemper of the Liver.

And if there be no Feaver, you may with more profit give Milk by it self, because it doth not only cleanse, but allay pain, and temper the sharpness of the Humors.

In an old Disease, it is good to give Mineral Waters that cool, especially Allum, Iron and Vitriol Waters; for by experience we find that they have cured this Disease when it hath been inveterate.

Instead of the foresaid Juleps, the simple decoction of Mallows, with Syrup of Violets, may be used; by which *Forestus* saith, Obs. 4. Lib. 25. he cured a grievous Dysury many times, and that there is nothing like it.

Forestus also Obs. 3. of the same Book, saith, that an Apothecary cured himself and others with the white of an Egg beaten with Rose Water.

He also reports, that a Woman cured an old man of *Delf*, with Camomel flowers boyled in Milk.

Amatus Lusitanus, 58. Curat. Cent. 6. saith, that a woman was cured, when all means failed, with Conserve of Mallow flowers; she took one ounce morning and evening, and drunk after it three ounces of Mallows water. And Curat. 59. he saith, that one who had a Dysury, after he had voided a stone, was cured by the same in three days. The Conserve of Marshmallow flowers is of the same or greater Vertue.

Some commend the Troches of Winter-Cherries given with convenient Liquor, the quantity of a dram, because they are Diuretick, abate sharpness and pain.

When the pain is very great, it is good to put the Yard when you piss into warm Milk, or a Decoction of Mallows and white Poppy seeds, or warm Water only.

A small Decoction of Mallows with Syrup of Violets and Conserve of Roses is good for ordinary Drink.

You may also make Injections into the passage of the Bladder, of Milk, or of an Emulsion of the cold Seeds, Plantane Water or Whey, with the water of a white of an Egg beaten, or on a scruple of the Troches of Winter-Cherries.

External Medicines are good, as Baths, half Baths, Fomentations to the Privities made of the cool Herbs, Liniments of Oyl of Roses, Water Lillies, Unguent of Roses, *Galens* cooling Oyntment Populeon with Camphire, and the Musilage of Fleabane made with Plantane water. Also you must apply Epithems that cool the Reins and Liver, and the aforesaid Liniments, and the things mentioned formerly for the same.

When sharp and cholerick Humors flow from the Liver, you may derive by an Issue in the right Leg, or by opening the Hemorrhoids, which is very good in all diseases of the Reins and Bladder; according to that of *Hippocrates*, Aph. 11. Sect. 6. because from the Spleen Vein called *Ramus Splenicus*, there are branches go to the Reins, Bladder and Hemorrhoids.

The End of the Fourteenth Book.



T H E
Fifteenth B O O K
O F T H E
P R A C T I C E
O F
P H Y S I C K.

Of WOMENS Diseases.

The P R E F A C E.

THose are called Womens Diseases which are proper to them only, and come from the defect of that part which is distinct in them from men, viz. the Womb; of which Democritus in his Letter to Hypocrates said, That it was the cause of six hundred miseries, and innumerable Calamities. But we to lay down those Diseases of the Womb which are most usual, will divide them thus: Some come from the Vessels, and some from the Body of the Womb or Cavity; others are in respect of its chief and not least act of Generation. From the distemper of the Vessels of the Womb, and the preternatural causes, come Chlorosis or Green Sickness, stoppage of the Terms, immoderate Flux, the Whites, Rage of the Womb, and the Mother. In the Cavity of the Womb are, Inflammations, Ulcers, Schirrhus, Cancer, Gangrene, Dropsie coming forth, and shutting up thereof: These may hinder Generation but by accident. The Diseases which are in respect of Conception, Breeding and Bringing forth, are Barrenness, acute and Chronical Diseases of Women with Child, Abortion, difficult bringing forth, dead Child, Secundine retained, immoderate flux, or suppression of blood, and the acute Diseases of Women in Child-bed. All which Diseases we will speak of in as few words as the dignity of the matter will permit.

C H A P. I.

Of the Green-Sickness, called Chlorosis.

THIS Disease by Hypocrates is called *Chlorosis*; by the Modern Physicians, the white Feaver, the Virgins Disease, the Pale colour of Virgins, the white Jaundice, but vulgarly the Green Sickness.

D I F F E R E N C E S. It may be defined thus: Anevil habit of Body from the Obstruction of the Veins of the Liver, Spleen and Mesentery, and especially of those which are about the Womb, which is accompanied with a heaviness or unwieldiness of the whole body, beating of the heart, difficulty of breathing, a desire of evil Food, and the like.

This Disease depends immediately upon the Obstruction of the parts in the lower Belly, especially of those Veins which are about the Womb, whereby the free passage of blood to the Womb is hindered, which abounding in Virgins when they begin to have their Terms, and being hindered of its natural course by those obstructions, runs to the upper parts, and oppresseth the Heart, Liver, Spleen, Diaphragma or Midriff, and other parts, destroys their natural heat, and stops the Vessels; hence is there an evil concoction in the Bowels; and from thence their body is full of Crudities, which being carried forth, make an evil Habit. In other parts they produce divers Symptoms in the Hypochondria, as swelling of the Bowels, by which the Midriff is oppressed, which causeth shortness of breath. And because gross blood and wind are carried by the branches of the hollow Vein, and great Artery into the Heart, which contend against them for fear of Suffocation, by often moving of its Arteries, there is a palpitation of the Heart, and often beating in the Temples. Besides, they have in this Disease a loathing of meat, because the Stomach is filled with crude excrements by reason of its evil Concoction and distribution: which excrements having gotten an evil quality by a peculiar kind of corruption, cause a desire of evil meats, and things not ordained for nourishment, as Salt, Spices, Chalk, Coals, Ashes, and the like, which Disease is called *Pica Malacia*, or strange longing, which we have at large spoken of in its proper place, among the Diseases of the Stomach.

CAUSES. The Causes of Obstructions in the Veins of the Womb and the Hypochondria, are thick slimy and crude Humors, coming commonly from evil Diet: for this, Virgins drink great draughts of Water at bed time, or in the morning fasting; or eat Vinegar, Herbs, unripe Fruits, Snow or Ice; hence it is, that they lose their Natural heat, and there is abundance of crude Excrements. Others sleep too much, or are very idle, as Seamstresses, which by sitting still all day are very cold. Others watch too much, and use unseasonable exercise, as dancing presently after meat, and so continuing with their Sweet-hearts all night. Moreover, they have great cares and disturbances of mind, by which the Concoction is destroyed, and the Body filled with evil Juice.

PROGNOSTICK. The Knowledge of this Disease is easie from the Symptoms following:

First, the Face and all the Body is pale and white, sometimes of a Lead-colour, blew or green; for crude, flegmatick and serous Humors abounding, and being carried to the habit of the body, do discolour it: and if Choller or Melancholy be mixed with that flegm, the colour will be yellowish, greenish or blew.

The second is swelling in the Face and Eye-lids, especially after sleep, because the motive heat being closed and contracted at night, raised more vapors than it could discuss. The Legs also and Feet, especially about the Ankles, and the whole Body, is loose and soft by reason of the abundance of flegm.

Thirdly, Heaviness and Idleness in the whole Body, a lazy stretching forth of the Legs, from the Humors being fallen down.

Fourthly, There is difficult breathing, especially when they move themselves, or go up Hills, or steep places, then the thick blood grows warm, and thence arise many vapors, which cause shortness of breathing.

Fifthly, There is palpitation of the Heart, and beating of the Arteries in the Temples when the Body is exercised, by reason of the same Evaporation, which is raised from thick Humors heated by Exercise.

Sixthly, There is often a great Head-ach, and sometimes in the hinder part of the Head, when the Womb suffers; but in the Forehead when the vapors arise most from the Hypochondria.

Seventhly, The Pulse is swift and quick, as if they were in a Fever, and therefore this Disease is called the White Fever, by reason of the quickness of the Pulse, which is so for this reason: The vital faculty being weak, makes the Pulse little, therefore Nature supplies the smallness of it with often beating,

Eighthly, The sleep is very sound, they sleep till Noon, except they be forcibly awaked; and this is from many thick vapors which arise from the filthy flegm.

Ninthly, There is a great loathing of wholesome meat, by reason of the great collection of Crudities in the Stomach and parts adjacent; and these Humors when they grow worse, cause the Pica, or longing for things that are not to be eaten.

Lastly, When the evil encreaseth, and the Obstructions are multiplied, the Terms stop, which shews the Disease to be at the height, and confirmed.

PROGNOSTICK. As for the Prognostick: That Disease commonly is not dangerous, and continueth a long time.

But if it be too much neglected and suffered to take root, so that the nourishment is hindered, there follow great diseases of the Natural part, as Schirrus and other Tumors, and corruption of the substance of them, which cause death by Dropsies, long Fevers and the like.

When the disease is less, and comes only from the Obstruction of the Veins of the Womb, in young Women it is cured by Marriage.

Women

Women that have long been in this Disease, either are barren, or their Children are diseased and weak.

There is great hope of Recovery, when the Terms keep their ordinary course, and their due quantity and quality.

CURE. The Cure of this Disease is by opening Obstructions, by emptying of the filthy Humors from the whole Body, and correcting the distempers of the Bowels, and strengthening of them.

The Obstructions are taken away by the Medicines which were mentioned in the Cure of the Obstructions of the Liver and Spleen, adding some things which respect the Womb, and that are more proper to open those Veins.

First then, give a purging Medicine agreeable to the Patients temper, made of gentle things, to cleanse the first Region only, and a Clyster before it, if the Body be bound.

Then open a Vein, if the Disease be not very old, and the Maid very much without Blood, and inclining to an evil habit. Let the Vein of the Arm be opened first, although the Terms be stopped; for if then you draw blood from the Foot, the Obstructions of the Veins of the Womb will be greater by their fulness. And if the Liver be most stopped, take blood from the right Arm; if the Spleen, from the left.

After you have bled sufficiently, you must give an ordinary Purge, by way of an Apozeme, such as was prescribed in the Cure of the Obstructions of the Liver. To which you may add some Herbs that are proper to the Womb, as Mug-wort, Feaverfew, Penny-royal; and if the Spleen be stopped, you may add proper things for that, as Caper barks, Ceterach or Spleenwort, Harts-tongue. If the temper be Cholerick, and there be signs of a hot and dry Liver, you must take all the hot simples out of the Apozeme, and put in cold openers instead thereof.

For the more delicate Virgins, instead of Apozemes, you may give the Broths prescribed in the aforesaid Cure of the Liver, and change the simples as we said of the Apozeme.

In the mean while you may use Fomentations and Liniments prescribed in the same Chapter, not only to the Liver, but to the Spleen and Womb.

After Purging, make this Bath following, to open and loosen the Vessels, and to dissolve and digest the Matter causing Obstructions, which are of such force, that we have known sometimes the Terms to begin to flow at the third or fourth bathing, when they have formerly been long stopped.

Take of Marsh-mallow Roots, Lilly Roots, Elicampane, Briony, wild Cucumber, of each two pounds: Mallows, Violets, Mercury, Pennyroyal, Feaverfew, Balm, of each four handfuls; Linseed and Fenugreek beaten, of each two ounces; boyl them in Spring Water for a Bath. Let her go into it warm twice in a day, not sweating, long before and after meat, for two days, renewing each day the Decoction.

The day after the last Bath, if the Terms be stopped, let the lower Veins be opened, and take away three ounces of Blood; and this may be done twice or thrice at a time, in which the Terms used to flow. Or if they never did appear at that time in which the Patient is most afflicted.

After these Medicines, to strengthen the Bowels, and to wear away the reliques of the Obstructions, an opening and strengthening Opiate will do very well, described in the place mentioned; to which you may add two drams of *Fæcula Brionie*, and as much of Salt of Mugwort.

But because sometimes the Obstructions are so great that they will not presently be cured, you must make a Magistral Syrup of the Ingredients to the Apozeme before mentioned, with an encrease of the purging Medicines in quantity, and let the Patient take it twice or thrice in a month.

The ordinary Pills mentioned in the Cure of the stoppage of the Liver, are most excellent; to which you may add the Medicines there mentioned, of Tartar, Vitriol and Steel.

Zacutus Lusitanus, Obs. 99. Lib. 2. reports of a certain Woman which had the Green sickness ten years with stoppage of her Terms, and could not be cured with divers opening and purging Medicines and some made of Steel, yet that he cured her with nothing but Conserve of Mugwort given thirty days together, drinking after it the distilled water of Savin, in which Rhubarb had been a whole night infused.

The same *Zacutus*, Obser. 117. Lib. 3. tells of a Virgin, which eating much Salt every day, fell into a Diarrhoea of Choller, mixed with a Consumption, which he cured after general Medicines with Goats milk stealed, and cold things applied to the Liver.

In the greatest Obstructions, an Issue made in the right or left Legg, as the Liver or Spleen is affected, is very good.

After the Obstructions are opened, you must discuss the flegm like serous Humors, that remain in the Veins, and in the habit of the Body by sweats; for which you must use the Decoction of Guajacum in cold Constitutions, or of China and Sarsa in those that are hot. for fifteen or twenty days, with this Caution, That every fourth or fifth day, you give a Purge to cleanse the Bowels of humors which cannot be sent forth by sweat; and which if they continue, will grow hard and putrifie; and be the occasion of Feavers, and other Diseases. For this purpose you may use Brimstone Baths both for drink and bathing; for by the drinking thereof, when the passages are first open by the Medicines

afore-

aforesaid, the Humor that is contained in the first and second Region of the Body, is cleansed and sent forth by the Belly and Urine; and the third Region is cleansed by sweating in them.

And lastly, Copulation, if it may be legally done, after the use of opening Medicines, is very good; for thereby the Natural heat is stirred up in parts Natural, by which the Vessels of the Womb are much enlarged. And Experience teacheth, that sometimes these Women have their Terms the first night after marriage, and that others who are in good health, have them before their accustomed time.

CHAP. II.

Of the stoppage of the Terms.

THe Terms are said to be stopped, when in a Woman ripe of Age which gives not suck, and is not with Child, there is a seldom, small, or no evacuation of blood by the Womb, which used to be every moneth.

CAUSES.] The Cause of this stoppage is either in the Womb, or its Vessels, or in the blood which comes, or ought to come that way.

Divers Diseases of the Womb may cause this Disease; namely, a cold Distemper and dry, which thickeneth and bindeth the Body of the Womb; or a hot and dry distemper by drying the part, or burning up the nourishment thereof, from whence come evil humors, which being fastened in the part, hinder the Terms from flowing. Also the Organical Diseases of those parts, as Inflammation or Schirrhus, the turning of the inward mouth thereof, or compression from the Tumors of the parts adjacent, or the Omentum or Caul growing too thick: The thickness of the Womb it self, Ulcer or Scars which they leave, or from the tearing of the Cotyledones, or mouths of the Vessels, in a great Abortion.

The Vessels of the Womb do often suffer Obstruction, which is the chief cause of stopping of the Terms, and they come from cold and thick Humors; sometimes there is a suppression of those Veins by binding of them, and that is from the parts adjacent being stretched and swoln, as we said in the binding or closing of the Womb.

The blood offending either in quantity, quality or motion, may be a cause of the obstruction of the Courses. It offends in quality, when it is too much or too little; too much, when it stretcheth out the Veins; so that they cannot contract themselves to expel it; as in the bladder, when it is too full of Urine, it cannot contract it self to send it forth; too little, when the Body hath not blood enough to nourish it.

The blood offends in quality, when it is thicker, and more slimy of its own Nature, by reason of the cold distemper of the Liver, or other parts: or from the mixture of thick and flegmatick or Melancholick humors, from whence commonly Obstructions come.

The blood offends in motion, when it passeth otherways, as by the Nose, vomiting, spittle, Urine, Hemorrhoids, and many other parts. I saw a Maid who had a Sore in her head, which opened every moneth, and bled plentifully; and we have many that have sent forth blood at fixed times by their Lungs; and this evacuation was instead of a Menstrual flux.

The External Causes are cold and dry Air, Northern Winds, often going into cold water, especially in the time of their flux; too little or too much meat, either too thick and cold or too astringent; also hot things, as too much Salt and Spice, by drying of the substance of the Liver, and other parts, and by drying up the blood, by which it groweth thick, and fit to stop; violent exercise and watchings, which do consume the blood; long sleep and idleness, which do weaken the Natural heat, and cause Crudities; too long retaining of Excrements, by usual bleeding at the Nose, Hemorrhoids, Diarrhoea, and other evacuations by Vomit, Urine or Sweat; and lastly, great passions of the mind, anger, sudden fear, sorrow, jealousy, and the like.

DIAGNOSTICK.] The Knowledg of this is to be taken from the Patients relation; but because it comes either from Natural or Preternatural Causes, we shall lay down some distinguishing signs, lest the Physician be deceived by Women that would dissemble their being with Child, and lest he should rashly prescribe Medicines to provoke Terms to women with Child.

First, If they be with Child, they have commonly their Natural Complexion; but others are pale and ill coloured.

Secondly, The Symptoms which Women with Child have at the first, do daily decrease; but in others, stoppage of the Terms, by how much the longer the Terms stop, by so much the more the Symptoms encrease.

Thirdly, In Women with Child, after the third Moneth, you may perceive the Scituation and Motion of the Infant, by laying your hand upon the inferior Belly; in others there is a Tumor to be felt

but

but it is Oedematous or Hægmatick, not hard ; neither is it proportionable to the Womb.

Fourthly, If a wife Midwife touch the inward mouth of the Womb, it will not be so close shut as in Women with Child, but rather hard and contracted, and full of pain.

Fifthly, Women with Child are commonly merry, and little disturbed ; but when the Terms are otherwise stopped, they are sad and sorrowful.

SIGNS.] The Signs of the Causes are these :

The faults of the Womb which use to cause stoppage of the Terms, shall be laid down in the following Chapters ; but the greatest part of them is found out by touching, seeing, and relation of the Patient.

The Obstruction and straightness of the Vessels of the Womb are known by pain in the Loyns and parts adjacent, especially in the time the Terms should flow ; and if any thing flow at that time, it is slimy, white and blackish. Now the Diseases of the adjacent parts, which may shut the mouth of the Womb, or the Veins, will appear by their proper signs.

You may know the abunding of blood in the Veins, by the swelling of the Veins in the Thighs and Arms, especially if the Woman be fleshy and red, and have fed high. You may suppose there is want of blood, if the Woman be fat, if she have had a long Feaver went before, or loathing of meat. The evil quality of the blood is known by the evil habit of the Body, by the distemper of the Liver, and other parts, and especially by the blood it self, if you can see some of it. The preposterous motion of blood, when it flows another way, is manifest of it self.

PROGNOSTICK.] As to the Prognostick. The stoppage of the Terms is very dangerous, and many great Diseases come thereof, and some in the Womb it self ; as swellings, imposthumes and Ulcers ; others in the whole Body, and divers parts thereof, as Feavers, Obstructions, evil Habits, Loathing, Dropsie, Heart-ach, Cough, short Breathing, Fainting, sore Eyes, Madness, Melancholy, Head-ach, Joynt-gout, and the like. *Hypocrates*, Lib. 1. of Womens diseases, hath shewed the increase of Diseases from the stopping of the Terms, in these words. *The third moneth after the stoppage of the Terms, they begin to feel suffocations, or shortness of breath, with horrors, heaviness of the Loyns, and sometimes a Feaver.* But if it last long, the Belly grows hard, they pils much, they loath meat, and watch much, they grate their Teeth in sleep ; and if they continue longer stopped, the pains will be greater ; but in the sixth moneth, that Disease which was formerly curable, will be then incurable : then she will be troubled in mind, and faint, vomit flegm, be thirsty, the Belly about the Privities will be pained ; there will be a Feaver, and the Body bound, and the Urine stopped, the Back will ake, and she will stammer. Afterwards the Legs, Feet, and Belly will swell and the Urine be red, bloody, and pain over all the Body, especially the Neck and Back-bone and Groyns, and so they die of a Dropsie : Thus far *Hypocrates*. But here is a doubt, because the Author saith, That in the sixth moneth the disease is incurable, when Experience teacheth the contrary : and *Hypocrates* himself, 4. Epid. reports, that a Maid who had her Terms stopped for seven years, was restored to health by the return of them. *Hypocrates* may be reconciled to himself, by saying, That after six moneths the Disease is incurable, when the Terms are in the Body or Cavity of the Womb, because they putrifie, and come to suppuration, as in the After-birth, or Blood retained. But this is not to be understood of every Suppression.

That stoppage is least dangerous which comes from plenty of good blood, or Fat, bleeding, or other Evacuations, because those Causes may easily be removed.

That is harder to be cured which comes from heaviness of Humors, Obstruction of Vessels ; or straitness, because that stubborn Humor getting into the innermost passages, cannot be got forth but by long pains and Medicines, which Women are very unwilling to receive.

That stoppage which cometh from the distemper only of the Womb is worst, because the part being hurt by propriety, is hard to be cured by reason of the continual flux of Humors, which the part is disposed to receive, and therefore it is called the Jakes of the whole Body.

CURE.] The Cure of this Disease is divers, according to the variety of the Causes. And first if it come from too much blood, you must abate the quantity by Phlebotomy in the Arm ; for if the lower veins should be first opened, the blood would be drawn more to the Womb, where it would make greater obstruction and distention of Vessels, and break them, or cause Inflammation of the Womb.

After the Plethory or abundance of blood is taken away, you must draw the blood down by opening the lower Veins about the time that the Patient used before to be cleansed, as also by Frictions, Ligatures, Cupping-Glasses, dry, and with Scarrification.

These things done, you must relax and soften the parts of the womb with Fomentations and Baths, and moistning Unguents ; which if they cannot master the disease, you may give Hysterical Purges, and such as do properly provoke the Terms, which we shall after describe, chusing the mildest.

If want of Blood be the cause, as after long Feavers, great Evacuations, and Extenuation of the body, you must not provoke them till you have used Restoratives, and blood be renewed, and whatsoever

ever is the cause of extenuation be removed; which things being done, the Terms do commonly flow of themselves; which if they do not, but Nature forgets her office, you must open the inferior Veins, and use the Medicines aforementioned, so that you take not away too much blood, because the strength is little, and lest the Patient fall into a Consumption. But hear you must diligently mark, That every extenuation of the body doth not signifie want of blood, but only after great evacuations and consuming Causes; for it comes to pass sometimes, that the Terms stop, in the Veins get an evil quality, which makes the blood unfit to nourish: hence comes leanness, although the Veins be filled with much bad blood and then large bleeding is very good, as *Galen* confirms. Comment. 3, in Lib. 6. Epid. I (saith he) cured a Woman that had her Courses stopped eight months, when she was lean, by drawing much blood; as also others. But what hapned to that famous Woman was remarkable; I opened a Vein when other Physitians feared the success, and were against me, saying that it must hurt her, not only because she was lean, but also because she had no stomach to Eat. But these young Physitians had a more Sophistical way, to observe what hapned to the Patients, and to neglect the effects and Causes, which are the ground of Cure. I took (to my best remembrance) the first day a pint and an half of blood from the Woman; the next day one pint: the third not above half a pint, or eight ounces. Thus *Galen*. By which it is manifest, That from lean women, of this Disease, you may take a great quantity of blood, although the Women of our Age will not endure it.

The stoppage of the Courses comes from a preposterous motion of the blood, when it is sent forth by the Nose, Vomiting, spitting, or Hemorrhoids, and the like: The Cure is by repelling it from those parts, and brining it to the passage of the womb. First (while they bleed) you must wash Arms, Head and Face, with the cold water, and keep them from the use of those parts, especially loud speaking; then you must open a Vein beneath. Two or three days before they bleed, apply Cupping-glasses to the Thighs and Calves of the Legs, sometimes dry, sometimes with scarification, by provoking the Hemorrhoids, by Frictions, Ligatures, walking, Fomentations, Baths of opening Herbs, Ointments, Pessaries, Clysters from the womb, and the like, which shall be described hereafter. The use of a Natural Bath is principally commended, if it be of Brimstone or Bitumen; into which let the Patient go often, long before, and after meat, not above the waist, and at the same time let the upper part be cooled with a Fan, lest by heat of the Bath, they also wax warm.

If blood flow from the Hemorrhoids being diverted from the womb, it is hard to be cured; for if you use Attractions to the lower parts, they will go by stool, and if you use Astringents below, they will repel from the womb through the nearness of parts. Therefore there is no way of Cure but this, That after you have used Attractive things beneath, you apply Topical Medicines to the womb, which may draw the Humor now in motion, more unto the womb.

But that suppression of the Courses is of all other most frequent, which is caused by obstructions of the Veins of the womb. The Cure whereof, is in a manner the same which hath been propounded in the Case of Pale and discoloured Virgins, some things only being added, which do more specifically respect the womb.

In the first place therefore, All those things may be used in their order one after another, which have been prescribed for the Cure of the Green-sickness. And for the most part it falls out that the Obstructions of the Bowels being opened, the Courses flow of their own accord: whose Eruption may yet be furthered by the use of such things as cause the Humors to work downwards; as opening of the Inferior Veins, about that time when the Courses have been wont to come down; or instead of Blood-letting, Cupping-Glasses fastened unto the Hips and Ancles, both without and with Scarification, frictions of the same parts, and painful bindings.

If the Disease be so rebellious as not to give way to the former Remedies, we must proceed to such as by a proper and specificall vertue do move the Courses, which are wont to be used under divers forms. And in the first place, most effectual Powder, and grateful to the Taste, are thus made:

Take Cinamon and Amber, of each one scruple: Saffron half a scruple. Mix all, and make them into a Powder to be taken divers mornings one after another. Or,

Take Powder of the Roots of Madder, such as *Diers* use, and Sugar Powdered, of each one ounce: Mix them, divide all into three parts; of which, give one at the time in which the Courses should flow, early in the morning in hot Wine, while the Patient is yet in her bed; wherein let her continue five hours, well covered with cloaths. If her courses shall not flow the next course of the Moon, at the wonted time, give her the second part: If yet they come not, give her the third part at the third return of the time of her Courses. Or,

Take Roots of round Birthwort half a dram: Savin Leaves dried one dram and an half; *Dictamnus Cretensis*, and Troches of Myrrh without *Assafoetida*, because of the strong smell, of each one dram; Elect Cinnamon two drams; white Sugar two ounces. Make all into a most fine Powder, of which let her take two drams in the morning for certain days together, with broth of red Vetches, wherein two drams of Cinnamon, and half a dram of Saffron have been boyled.

Most excellent Pills made after this manner :

Take Troches of Myrrh one dram : Castorium half a scruple. With Juycce of Mugwort make small Pills.

Among familiar Medicines easily provided, are accounted the flowers of Lavender eaten with Honey many days together, or Conserve of Mary-gold flowers, given to the quantity of two drams at a time.

The Blood of a wild Goat and likewise of a tame one, hath mighty vertue to bring down the stopped Courses, according to that preparation and dose propounded in our Cure of the Pleurisie.

In hot Constitutions, Cream of Tartar used many days together in Broth, or some Melancholly driving Decoction, does further the Courses stopped.

But the Pills of *Montagnana* are mightily praised, being thus compounded :

Take Troches of Myrrh one dram and an half ; Parsley-seed, Castorium, Cinnamon, of each one scruple : Musk ten grains. With Juycce of Smallage form all (being powdered) into twenty two Pills, gilt with Gold. Let her take two in the morning, or at her entrance into bed, for some days together. Or,

Take Madder Roots and round *Aristolochia*, or Birthwort, of each three drams : Agarick and Cinnamon, of each one dram : Saffron one scruple : With Juycce of Mugwort, make a Mass of Pills ; whose dose is one dram.

Old Leven is commended by many, the quantity of a Chesnut, with the same quantity of Sugar given three days together. Yet it will do more good, if powder of the Troches of Myrrh, *Dictamnus*, or some such like be mixed therewith.

The most usual and profitable Decoctions are made in this manner :

Take Roots of Parsley, and great Madder, of each two ounces : red Vetches four pugils : boyl them to a pint and an half. In the strained Liquor boyl Cinnamon Powder one dram : Saffron half a dram, Honey as much as shall suffice : mix them. Let her take six ounces warm, in the mornings or twice a day, before her Courses break forth, or when they begin to flow, if they flow but sparingly. Or,

Take the Roots of Smallage, Asparagus, Fennel, of each one ounce : Feaverfew, Maiden-bair, Nep, Penny-royal, of each one handful : Boyl all to a quart. To four ounces of the straining, add one ounce of Syrup of Mugwort. Let her drink it hot twice a day as before. Or,

Take Cypress Roots, Angelica, Valerian and Madder of the Diers, of each half a dram : Leaves of Mugwort, Penny royal, Savin, of each half a handful : Seeds of Carrots and Seseleos, of each one dram : *Dictamnus Cretensis* one dram and an half : Choyce Cinnamon four scruples : Saffron one scruple : make a Decoction to four ounces. In the straining add Syrup of Mugwort and Hysop of each half an ounce : Make a Julep for one dose. Let her take it every other day.

Quercetanus in his *Pharmacopœia*, doth exceedingly commend two Decoctions : the first of which is thus made :

Take Gromwell seed, Annis seed Miselto of the Oak, of each three drams : *Dictamnus Cretensis* one dram ; Saffron one scruple. Beat what is to be beaten, and steep all in rich Whitewine twenty four hours : afterwards let them boyl a little. Of this Decoction give the Patient four ounces.

The other Decoction is thus Described :

Take the whole Spleen or Milt of an Ox, cut it in bits, and put it in a Capacious Glass, so as it may fill the Glass half full, adding of Cinnamon grossly powdered, one ounce : Cloves half an ounce : Saffron two drams : of the best Whitewine as much as shall suffice only to moisten all that is in the Glass. Let the Glass closely stopped, be put into *Balneum Mariæ* exceeding hot, so that it boyl twenty four hours together, until the Spleen shall be boyled and consumed into little crums, and there remains a great quantity of Broth excellently well boyled and of a very fragrant smell ; of which let the Patient take in the morning four ounces, continuing the same for four or five days ; When her Courses ought to flow.

Distilled Waters ought to be preferred before other Liquors, as being more pleasant to the taste : and because of their subtil thinness of parts, they pierce more easily to the obstructed Vessels of the Womb.

The Preheminence above all the rest, is by *Mercatus*, *Rodericus a Castro*, and *Sennertus* given to the following.

Take a Loaf almost as sower as Leaven, indifferently well baked and hot, take away the Crust, and add thereto of Honey twelve ounces, Powder of Nettle seeds, Carrot seeds, Amy, Annis and Fennel seeds of each one dram : Troches of *Gallia Molechata*, red Myrrh, of each one scruple : *Corula Foetida*, or stinking Fennel, half a dram. Infuse all in three pints of the Decoction below described, which is made of red French-Beans, and red Vetches, of each half a pugil : Juniper berries one ounce, Roots of Madder, Butchers Broom, Wild Rhadish, Asparagus, Smallage, and Parsley,

Parsley, of each two ounces: Green Germander one handful: Seeds of Amy, Annis and Fennel, of each two ounces: Boyl all according to Art. Then still the Liquor out in Balneo Mariæ; of which give to the Patient two ounces early in the morning. Also there may be added Syrup of Maiden-hair of Opening Roots of Mugwort. Also the Dose may be augmented the following days, if the Stomach be not offended.

A Decoction of Guajacum or Saxifras is good in flegmatick bodies; also *Distamus Creticus* may be added, taking the same twelve or fifteen days without sweating. *Jac'inus* relates an Experiment thereof, writing upon the ninth of *Rhasis*, Chap. 66. I boyled (says he) the Indian wood, and added *Distamus* thereto, by which I procured both her Courles, and Child-bearing to a Woman which had wanted her Courles five years, and had been Barren.

The Chymists commend *Tartarum Vitriolatum*, Spirit of Tartar, *Mixtura Spiritualis*, Salts of Mugwort, Bawm, Celandine roots, and Valerian.

This Treacle-Water following is marvellously effectual to this intent.

Take old Venice-Treacle five ounces, Red Alexandria Myrrh two ounces and an half, Elect Cinnamon, Oriental Saffron of each half a dram; Camphire two drams. Pour upon them of the best Spirit of Wine, till it stand three fingers breadth above the Ingredients, and draw off the Tincture with a gentle heat, whereunto being poured off, without straining and a sixth part of the Spirit of Tartar. The Dose is one spoonful with some appropriate Water or Wine.

Whilst the aforesaid Remedies are in Use, Clysters frequently injected are exceeding good, because the Womb does rest upon the straight Gut, or *Intestinum Rectum*; and they may thus be compounded.

Take Roots of Lille one ounce, of Orice and Valerian, half an ounce of each; of Mercury leaves two handfuls, Mugwort and Savine of each one handful; Chamomel flower and Lavender, of each one pugil, Seeds of Caraway and Nigella, of each one dram; boyl all to one pint. In the strained Liquor dissolve of Hiera simplex and Benedicta Laxativa, of each half an ounce; Oleum Cheirinum two ounces; Electuarium de Baccis Lauri half an ounce. Mix all into a Clyster.

Yea, And the truth is, Purgations repeated at certain convenient seasons will be very good, which may be in divers manners prepared.

And in the first place *Galen* exceedingly commends the Pills of *Hiera*, simple and compound; because over and above their purging of superfluous humors, they have a faculty of opening the narrow passages, and of cleansing the Womb. Or,

Take Aloes three drams, Mass of Cochia Pills one dram, with juyce of Savin form twenty Pills, of which give the Patient three before dinner, every third day. Or,

Take Aloes one dram, Choice Rhubarb one dram and an half, Diagridium one scruple; Myrrh and Asarum Roots of each half a dram; Spicknard one scruple. With Syrup of Mugwort make a mass of Pill-Paste. The Dose is from two scruples to a dram, made into Pills. Or,

Take of the Mass of Cochia pill-paste half a dram, Mercurius Dulcis twenty grains, with Syrup of Roses solutive, form eight pills, or six, Let her swallow them early in the morning.

Also outwardly, the Courles supprest are want to be holpen with these Topick Medicaments following, which must be outwardly applied, to widen the passages, make thin the humors, and to rouse and awake the Expulsive faculty.

Take Roots of Briony, Lillies, Cyperus, Valerian, Angelica, Asarum, Orice and of Parsley of each an ounce; Leaves of Mugwort, Bayes, Rue, Savine, Thyme, Rosemary, Pennyroyal, Nep, Mallows, Mercury, of each one handful; Flowers of Elder, Cherry, Chamomel of each two pugils: Juniper berries two ounces: Boyl all in water and Whitewine, with the strainings let the Patients belly and the parts about the Privities be fomented with a sponge.

With the same Decoction, the quantity of Ingredients being augmented, may be made a Bath to sit in; wherein the Patient may sit up to her Navil, and the boyled Herbs being put into a bag must be applyed to her Belly. But let her take heed of sweating, which doth stop the Courles.

Take Oyl of Lillies, Dill and Rue, of each one ounce and an half; Generous Wine three ounces; Squinanth Roots of Bindweed, Angelica, the two Birthworts and Savin leaves, of each half an ounce. Let them boyl till the Wine be consumed. Let them be strained and the Oyl pressed out, wherewith warmed, let the share and parts about the Privities be anointed, after fomentation or sitting in the Bath.

Mist suffumigations are made of the Vapour of the Decoction for the Fomentation, and for the sitting Bath, which being moderately heated, must be covered with a cover that hath a hole in it, whereunto must be fastened a long Pipe, which must teach into the neck of the Womb, through which let her receive the smoak morning and evening, being covered with cloaths.

A dry Suffumigation may be thus made:

Take Cloves, Cinnamon, Mace, of each two drams; Juniper-berries half an ounce, Nigella seeds one dram, Storax two drams. Make all into a gross Powder, which being laid on Coals, let her receive the smoke into her womb, after the manner aforesaid. Or,

Take Storax two drams, Frankincense one dram; Benjamin, Aipta Moschata, of each half an ounce; Cloves, Lignum Aloes, Cinnamon, of each two scruples: With the Musilage of Gum Tragacanth extracted with Cinnamon Water, make little Cakes for to burn as aforesaid.

Pessaries may be made after this manner:

Take of leaves of Mercury bruised one handful, Powder of Hiera Picra and Benedicta Laxativa, of each two drams; Powder of long Birthwort one dram; Honey and juyce of Mercury, as much as shall suffice: make all into a pessary. Or,

Take of Agarick, Myrrh, of each two drams; Galbanum half a dram; Saffron one scruple: With clarified Honey make all into a Pessary, which put into a warm thin rag, and convey into the Womb; but let it not abide long there for fear of Inflammation.

Pilule Cochiae minores, brought into the form a Pessary, do excellently move the Courses.

Also Injections are wont to be made into the Womb, which are wont to be called Womb-Clysters, for they wash away the filth which cleaves to the sides of the Womb, and they open the internal Orifices of the Veins. Now they are made of the Decoction of the Fomentation aforesaid, leaving out the more sharp things; or with a Decoction of fat Figgs, with Mugwort, Pennyroyal and Mercury; or of the Juyce of Mercury alone purified, in which a little *Benedicta Laxativa* is dissolved. For we must by no means use more sharp Ingredients for fear of Inflammation. Yea, and after the use of the aforesaid Injections, which ought to be retained but an hour, it will be good to Inject a Decoction of Mallows, Barley, and Violet-leaves, or a little Hydromel tempered with Whey of Goats-milk.

In an old inveterate Disease, Issues made in the Legs, may do very much good. For although *Sennertus* approves not of them, because they rather derive from the Womb, and teach the humors which were wont to flow unto the Womb, to come rather that way, and hinder their inclinations to the Womb: yet have they been found to do much good by the frequent experiences of *Mercurialis Varandaeus*, and others. For by those Issues the superfluous humors are continually evacuated, and the Course of the humors is guided into the inferior parts. And the derivation of superfluous humors from the Womb is so far from hindering the Flux of the Courses to the Womb, that it rather furthers the same, by making the blood more pure, and more obedient to the command of Nature, which with the humors aforesaid, is not drawn unto the Issues. Add hereunto, that these humors, if they be not by these ways evacuated, being retained in the Vines, they double the Obstructions, and so do augment the suppression of the Courses. However, We are of Opinion, that the menstrual purgations, being restored to their due Courses, the Issues ought to be closed up, that Nature may accustom herself to exclude superfluous humors by the Womb.

In the Use of the Remedies aforesaid, some precepts are to be observed worthy of Note.

First, That we must never use Medicines that move the Courses, but after Universal Purgations, lest the humors being plentifully carried to the Veins of the Womb, should encrease Obstructions; or being much attenuated, should reach into other parts of the Body, and produce grievous Diseases. As *Schenkius* relates in his Observations, That a Physician of Venice gave a woman that wanted her Courses a certain Apozeme to move them, not having first purged the Body of Flegm; and a little after she had taken her Apozeme, she fell into a Palsey.

Secondly, That in giving such things as bring down the Courses, we must begin with the gentler, proceeding by little and little to such as are the stronger.

Thirdly, That Medicaments procuring the Flux of the Courses, must be given in greater quantity than ordinary, because their vertue is abated in their long passage from the Stomach unto the Womb.

Fourthly, That Medicaments aforesaid are to be given either in the morning when the Patient is fasting, or sometimes at her going into, or coming out of the Bath: For so the Medicine slipping into a warm and opened Body doth powerfully exercise its strength; and this it doth yet more effectually, if it be given a little before the inferior Veins be opened.

Fifthly, That Pessaries and Womb-Clysters, or Injections, are only to be prescribed to married Women, and such as have been carnally embraced by men; but to Virgins we must prescribe *Nasalia* (viz. Wool dipped in the Medicament) Fomentations, Baths to sit in, and Suffumigations.

Sixthly, In Choleric or Melancholick Constitutions, all hot Medicaments are to be avoided and only the gentler and milder sort are to be used; and with temperative Aperitives or openers, as also moistening and softning Medicaments are to be mixed.

Chap. 3. Of the Immoderate Flux of the Courses.

WOmens monthly Courses being moderate in quantity, and flowing in due season, are Natural: But if they exceed in quantity, or come too often, or stay too long, they are to be accounted Immoderate, and besides the intent of Nature.

CAUSES. The Causes of this Immoderate coming down of the Courses, are the same which (we in its proper place have shewed) do concur to cause spitting of Blood; viz. An opening of the ends of the Veins, a soaking of the blood through the Coats of the Vins, a forcible rending of the Veins, and their being eaten through by sharp Humors: all which are caused by the bloods over great abundance, Heat, Thinness, or Sharpness: by some blow, fall or wound: Which we have at large declared in our Speculations touching spitting of blood, so that it is needless here to repeat the same. Let the Reader be pleased to peruse that Chapter.

SIGNS. The Signs of this Infirmary, are either of the Disease it self, or of its Cause. Immoderate Flux of the Courses is known by the ill-bearing of the Patient, decay of strength, want of appetite to meat, indigestion of Humors, ill-Habit of the whole Body, colour of face like a dead Corps, swelling of the Legs, and other more grievous maladies, caused by Natural heat past away in the Blood.

To know the Causes, observe these signs following: A thin habit of Body and softness of the Flesh, with such a Diet as tends to encrease the Wheyish and thinner parts of the Blood; and especially the blood it self appearing thin and watery in the cloaths coming from the Patient, doth shew that the blood hath soaked through the Veins.

That the Immoderate Flux is caused by an opening of the ends of the Veins, or a breaking of their Coats, is known by the foregoing of Wounds, Falls or Bruises; by the use of dancings, long out-crys, carrying unufal weights by a Person corpulent and full of Blood: By some foregoing great heat, extream Cold, Immoderate carnal Imbraces, great Anger, and the like. The same may also happen after fore labour in Child-birth, or by the unskilful handling of a Midwife, after a miscarriage, or after a long stoppage of the monthly blood, which makes the same being collected in too great a quantity, break out on a sudden with violence.

That there is an Exulceration in the womb, whereby the Veins are eaten through, appears by the Blood dropping out by little and little with a sence of pain and sharpness; and by the Bodies being replenished with Salt and sharp Humors. Also the blood which comes away, is at first Matterish, Wheyish, Blackish or Yellow; and afterward if the Exulceration encrease, some bits of the parts affected are eaten off, whereupon follows a great effusion of blood, hard to be stopped. Also there have preceedeth such things as are wont to breed bad blood, such as are the use of sharp things in Diet, the use of Salt meats, of meats putrified, and such like.

PROGNOSTICK. As for the Predictions belonging to this infirmity, we are to know, that all large and long-lasting Issues of blood are dangerous; especially those from the womb, which hurts not only her that suffers them, but hinders posterity.

That which comes by a soaking of the blood through the Veins, is of all others the least dangerous, as causing less expence of heat and Spirits, yet it continues longer, by reason of the continual supply of raw and Wheyish blood.

The breaking of Veins, and the opening of their mouths, cause greater danger, because there do suddenly issue forth great quantities of blood; yet are they sooner cured, as happening for the most part, only in bodies over full of blood, and otherwise healthy.

But of all others, that which springs from Exulceration is most hard to cure, because where the Ulcer is, there some part of the substance of the Vein is perished, which hinders the growing together again of that breach, whence the blood issues.

If the sick party grow daily weaker and weaker, and the disease stronger and stronger, it portends her death.

In an elderly Woman, over great Flux of her Courses is commonly incurable and deadly.

CURE. The Cure of Immoderate Flux of Courses must be in a manner the same which we have prescribed to cure the immoderate running of the Hemorrhoids.

For in the first place, to draw the Blood from the part affected the Patient must bleed in her Arm, not all at once, but by degrees, now and then stopping the Orifice with your finger, and then letting it bleed again. She must bleed plentifully, as much as her strength can bear. For *Hollerius* in his Comment upon the 50. Aphor. of the 5. Sect. doth testify that he hath seen many Women cured by large Blood-letting, when the Issue of their blood could by no other remedies be stopped.

Rubbings, Bindings and Cupping-glasses are good to cause revulsion, as in the Cure aforesaid we have

have shewed, especially if the Cupping-Glasses be fastened upon her Dugs, according to that Sentence of *Hypocrates*; If you would stop a Womans Courses, fasten a very large Cupping-Glass unto her Dugs: Howbeit, if upon the setting on of the Cupping glass, she grow short-breath', you must quickly take it off again.

Likewise the same purgation may serve which we propounded in the Cure of the Hemorrhoids; and it must be reiterated once or twice in a week, until the impurity of the Bowels and the Veins be taken away. For when the Chollerick and wheyish humors are taken away, which make the blood thin and sharp it leaves running of it self. If the wheyish parts seem most to abound, *Mechoacan* with *Rhubarb* will be a good Purge.

A Vomit likewise doth powerfully draw the blood upwards, and is commended by *Hypocrates*, in his Second Book of womens Infirmities. But the Vomit must be gentle, and often repeated. Also it may suffice for the Patient to put her finger into her Throat, and so procure Vomit: Yea, and the Truth is, it may serve the turn, and will be very profitable for her to provoke her self to Vomit before her Dinners, but so as not to vomit, only to use some forcing thereunto. Unto which Remedies, these which follow may profitably be added, as being tried by very learned Physicians.

Take the Shells of two new laid Eggs burnt, Frankincense, Mastich, of each half an ounce; Pearls prepared, red Coral prepared, and Amber, of each two drams; Bloodstone and Smarage prepared, of each half a scruple; Barley meal without Bran, two pugils: four whites of Eggs, and if need be, add a little Water, in which red hot Steel hath been quenched and make two Cakes, which must be baked so hard in an Oven, that they may be beaten to Powder. Of which Powder give from half a dram to a dram early in the morning, in a draught or mess of Broth made of Sheeps Trotters.

John Michael Paschalius doth witness that many Women long troubled with this Infirmity, have been cured with this Powder.

Also the Powder of Egg-shells alone is commended, a dram thereof being given divers mornings together, and it is accounted by some for a Secret.

Forestus commends the following Powder, which he sayes was one of the Secrets of his Doctor, or Instructor, *Helidius*.

Take a Turtle Dove moderately fat, draw it, and wash it with astringent red Wine and Rose water mingled together, and put an ounce of Mastich in the Belly of it, and sew up the belly that none of the Mastich may fall out: Then roast it upon a Spit, and instead of Butter, bast it with Vinegar of Roses, and save the fat which shall drop from it for your use. When it is excellently well roasted, put it into a new glazed pot or pipkin, closed up with such materials as the Chymists use to close their Vessels with, that nothing may vapour out. Then let it be set into the Oven, till it be so dry that it may be beaten into a Powder, of which Powder, let the Patient take one spoonful every morning in Plantane Water, or in some astringent Decoction. And with the fat which was reserved at the roasting, let the Reins of her back, her groins and Privy part, with the share, be anointed.

Our Country-women have an ordinary medicine of the Flowers of the long-stalked common Thistle, wherewith they use to curdle their Milk when they would make Cheese. They administer these Flowers in Broth, or other convenient Liquor. Others use of the Runnet of a Kid or an Hare, to the quantity of ten grains, which both stops the flowing of the Blood, and dissolves that which is clotted together in the Womb.

Galen account Juyce of Plantane newly made to be the best medicine in the World, being given to the quantity of three or four ounces.

Solenander adds to the aforesaid Juyce a quantity of Colophony, and avouches it to be a remedy that never fails; his words are these: *To stop an old Flux of the Courses, take two ounces of the Juyce of Plantane, and mingle therewith a dram of Colophony powdered and give it the Patient to drink. Let her take it four times, and she shall be undoubtedly healed, with Gods Blessing.*

The Juyce of Yarrow is very convenient in this case, if two or three ounces thereof be given with Syrup of Corla, or some other convenient Syrup.

The Juyce of Nettles is no whit inferior to, or rather exceeds the former in efficacy: It may be given alone or in mixture with others of little faculty: Or a Syrup may be made of Nettles to be ever in a readiness.

A Water drawn out of the most tender Oak Leaves, which are of a reddish colour, stops the aforesaid Flux.

Mercatus makes up a very effectual Water, after this manner:

Take a Loaf made of Wheat Flower, Barley Meal and Rice: break it in pieces, and pour upon it seven pints of Water in which red hot Steel hath been quenched: Whereunto add red Rose Leaves dried, three pugils: Juyce of Plantane a pound: the Roots of the larger Comfrey, being green and bruised, two ounces: the Herb Horse-tail, or Shave-glass, one handful, the pulp of Choak-pears

Choak-pears, and Quinces, of each two ounces: Purslain two handfulls: Bole armonick one ounce: Balauſtins, and the three ſorts of Sanders, of each half an ounce: Let all theſe be diſtilled in an Alembick. Let the Patient take of this Water three ounces mixed with half an ounce of Syrup of Purslain, or of dried Roſes.

For the more tender ſort of Women, Broths may be made of Calves feet, with Plantane Leaves or Blood-wort. Or to thicken the Blood, a Broth may be made of red Roſe-Water alone. and the Yolks of new laid Eggs. Likewise a Conſerve of Bramble Roſes is good for them, being often uſed, eſpecially if their Liver be diſtempered with heat.

In all Fluxes of Blood, Praſtitutioners do uſe to adminiſter Water and Vinegar in a large quantity to be drunk down. But in this Flux of the Courses it is to be feared as an Enemy to the Womb, which is a Membranous Part.

Among the Specifick or appropriated Medicines, are reckoned Filipendula Roots, with the outer Rind of the Mulberry-tree Root, whoſe Powders are adminiſtered to the quantity of a dram, in ſome convenient Liquor.

The Flowers of the Nut-trees are gathered when they are ripe and ready to fall, and powdered, and a dram given in a Cup of Wine warmed in the mornings, for divers days together. *Solenander* witneſſeth that all that he undertook he cured with this Medicament. Alſo it hath a peculiar propriety to help fits of the Mother.

Spicknard in very fine Powder, and taken to a dram in ſome convenient Liquor, ſtops the Courses: Alſo being conveyed into the Womb in Lint, Wool, Cotton, Raw Silk, &c.

Milk in which red hot Steel hath been quenched, being drunk many days together, is very effectual in an old flux of the Courses; for it allayeth the ſharpeſs of the Humors and thickens them; it nourisheth the Body, and ſtops the flux. *Avicenna, Rhafis*, and the reſt of the Arabian Phyſitians, extol this Medicine to the Skies: and ſo doth *Horatius Augenus*, a noted Italian Phyſitian. Yet it is not to be uſed, if we ſuſpect the Body is not yet clear of vitious Humors.

The Acid Mineral Springs, whether they have their Tincture from Vitriol, Iron, or Allum Mines, do much conduce to the ſtoppage of immoderate Courses, both by removing the Cauſes, and by ſtrengthening the Bowels affected.

The Chymiſts do much commend the Tincture of Coral, and *Vitriolum Martis* (Vitriolated Steel) and many other Medicines, which you ſhall find in their Books.

Let the Patient uſe to drink the Decoction of Maſtich, Yarrow, or of the dried Lentich, or Maſtich-tree. Alſo the Lentich or Maſtich Wood may be ſteeped in black harſh Wine, which doth very much ſtrengthen the Bowels, and ſtop deſluxions.

It muſt be diligently remembred, That in an old Flux. very aſtringent and thickening Medicaments, are not to be uſed long together. For it is to be feared, leſt they ſhould fill, ſtraighten, and ſhut up the ſecret paſſages of the body, and ſo breed Obſtructions, and very much hurt the Principal Bowels, which are wont to ſuffer very much in this diſeaſe. But it is much better to perſiſt in the uſe of ſuch things as ſtrengthen the Liver, which have ſome aſtriction, but ſo moderate as can do no harm.

Ludovicus Septimus in his Medicinal Animadverſions, in the 144. Article, gives ſuch commendations of the Decoction of Orange Peels, as of a Medicine that never fails, that it will be worth our while to tranſcribe his very words. *When ſuch Medicines as theſe* (quoth he) *have been Judiciously adminiſtered; in the next place, ſuch Medicines as have a thickening and aſtringing quality are to be uſed; among which there is one which I cannot omit to ſet down, wherewith I have cured almoſt an infinite Number of Women troubled with this Infirmity; which I kept long as a Secret, and afterwards communicated to ſome young Students, whom I did inform in the Art of praſtituting Phyſick, and now publiſh the ſame to the whole World for the good of Mankind: which Medicine hath ſcarce ever failed me, when there was no Veſſel of the Womb exulcerated, that fed the Flux. It is a Medicine eaſily gotten, and eaſily made. Thus:*

Take Seven pints of Water; boyl therein the rindes of three ſowr Oranges not thoroughly ripe, being cut in little thin bits or chips, and boyl them till two parts of the Water be conſumed. Give eight or nine ounces of the ſtrained Liquor to the Patient in the morning to drink. If you would have it more effectual, put an handful of Mouſ-eare into it, when it is almoſt boyled. And it will be yet more powerful, if you boyl it in Tunbridge water, or the like Medicinal Spring water: or if you boyl the aforeſaid Ingredients in eight pints of water, till two third parts be conſumed, and then ſtrain it, and quenched red hot Steel divers times therein.

Externally this flux may be ſtopped by Medicaments applyed to the outward parts of the Patients body.

And in the firſt place, Fomentations may be thus made:

Take the Roots of Biſſort (Adder-Wort) Tormentil, and the peels of Pomegranates, of each one ounce: The Leaves of Plantane, Knot-graſs, Shepherds-purſe, and Horſe-tail, of each one handful;

hand ut; Cypress Nuts, Balaustins, Myrtle berries, Sumach, of each one ounce; Boyl them in Water that hath had Iron quenched in it, and in red harsh Wine mixed together. Strain out the liquor and Bath therewith the whole Share and Privy parts, warmish, but not hot.

Also, Boyl a piece of Sea sponge in strong Vinegar, and lay it upon the Patients Share, and Privities, it will powerfully stop the immoderate Flux of the Courses.

A Bath made of the aforesaid Decoction, the Dose being augmented, will be good for the Patient to sit in: But care must be taken that it be not hot, but only warmish; otherwise it will by its heat, the more open the Veins of the Womb. A Bath made of the Decoction of Allum is very effectual; but it causeth barrenness.

After Fomenting and Bathing, the Patient must be anointed upon her Loyns, her Share, and Privities, and between the water-gate, and the Dung-gate, (which space is called *Perinæum*, and wants an English name) with an Oyntment made as followeth.

Take of Oyle of Myrtles, of Mastich, and of Quinces, of each one ounce; Bole-Armonick, Dragons-blood, and Carabe, of each one dram; Vinegar one spoonful. Make all into an Oyntment.

Unguentum Comitissa may also be used, *Unguentum de bolo* newly made, or this following Cerate, which is very effectual.

Take Ship pitch half an ounce; Male Frankincense one ounce; Mastich half an ounce; Turpentine one ounce; Dragons blood, red Roses, of each two drams. Make thereof a Cerate to be applied to the Reins of the Back.

Plaisters are also profitable applied unto the Navil, and Loyns, made of the Mass of Plaister against Ruptures, the Plaister against the Mother, and of Mastich Plaister, either alone, or mingled together: Or of the Plaister of *Vigo* for Fractures, which is most excellent; and works its effect without heating the part.

The following Cataplasms are much more effectual, and very prevalent in a large Flux of Blood, causing danger of Death.

They are made, either of Bole-armonick incorporated with Juyce of plantane and a little Vinegar, and so applied.

Or of Plaister of Paris one pound, incorporated with ten drams of Gum-arabick toasted at the Fire, and laid upon the parts aforesaid in Cotton-wooll: The whites of four Eggs being first mingled with it. *Solenander* saith, that this Cataplasm stops all womens Fluxes in one day.

A Cataplasm, or Pultis made of Nettles, fried in a pan, and laid upon the Share and privities, works more kindly than the former; rather by a specifical property, than by its astringency.

Injections made of juyce of Plantane alone, are likewise conveyed into the womb by an Instrument for that purpose; which is very effectual, and much cryed up by the Practitioners. Juyce of Knot-grass may be used to the same intent. And sometimes we are wont to add to the aforesaid Juyces, of the Mucilage of Gum Tragacanth one ounce; Starch one dram; water of Rose-stalks, and seeds three ounces, which are mixed, and Injected into the womb. Or,

Take of the Leaves of Knot grass, Plantane, Tarrow, Shepherds-purse, Horstail, of each half a handful: Boyl all in water sufficient to half a pint. In the strained liquor dissolve three drams of Acacia, Dragons blood, Bole-armonick, and Blood-stone, of each one ounce: Mix all, and make thereof a Clyster for the Womb.

A Fume made with Vinegar, powred upon a red hot Iron Plate, and received by the Patient sitting over a Close stool, is very profitable; or a Fume may be compounded after this manner.

Take of Frankincense, and Mastich, of each two ounces: Myrtles and Labdanum, of each one ounce: Amber, red Roses, Balaustins, of each half a dram: With the infusion of Gum Tragacanth in red Rose Water, make Cakes to burn under a stool as before.

John Michael Paschalius doth testify that he cured a Woman troubled near seven months with this Disease, with the smoak of burnt Frogs: and he affirms that the smoak of a Mules Hoof, is an experimented Remedy: wonderfully effectual in this Case.

Astringent Pessaries are likewise usual in this Cure. Howbeit, they profit little, seeing they can hardly reach unto the Orifice of those Veins, which are opened in this Disease. But if the Veins of the Neck of the Womb are opened, they may be useful; and are thus Compounded.

Take of the Juyce of Plantane, or Knot grass two ounces: Troches of Carabe in Powder, and Acacia, of each one dram: Mix them with the White of an Egg. rowl them in silk, and make a Pessary. Or,

Take of the powder of Hypocistis, Acacia, Bole-Armonick, Dragons-blood, Comfry Roots, Lambs tongue, Plantane, Galls, of each half a dram; Juyce of Purslain, or Plantane, or Syrup of red Roses, or Myrtles, as much as shall suffice, and with Cotton Wool make a Pessary.

Pessaries are likewise made of the Leaves of Purslain, Plantane or Knotgrass, or some other convenient

ve nient Herb bruised, and rouled in a piece of fine Linnen ; or the Countesses Oyntment wrapt in Wool, and put into the Womb.

Neither are we to neglect the washing of the Patients Legs with cold Water, or some astringent Decoction, which is commonly used by practitioners, and doth not a little further the stoppage of the immoderate Courses.

Touching the administration of Topical Medicaments, it is to be observed, That astringent medicines, especially the stronger sort of them, are not to be applied before sufficient Revulsions have been made, especially by Blood-letting: for it is to be feared lest they cause Tumors, or other worse Diseases in the Womb. Wherefore always as far as the Disease will allow time, the Cure must be begun with internal Medicines of a thickening and astringent Nature, before we make use of the Topical medicines aforesaid.

This Method of Cure aforesaid may with judgement be accommodated to the Flux of Courses, arising either from an opening of the mouths of the Veins, or from a draining of the Blood through their Coats, or from a breaking of the Coats of the Veins: But if it arise from an eating or exulceration of the Coats of the Veins, it ought to be cured after the same manner as an Ulcer of the Womb is cured; of which hereafter.

In the whole Course of the Disease, while the aforesaid Medicaments are used, care must be had to strengthen the Bowels, and to correct the vitious quality of the Blood, as we shewed in the Cure of the Hemorrhoids.

And to conclude, when the Flux is allaid, the same Rules of prevention are to be used in this Disease, which we prescribed concerning the Hemorrhoids.

Of the Whites.

A Woman is said to have the Whites, the Womans Flux, the Flux of the Womb, or the white menstruals, when Excrementitious Humors do flow from the Womb, either continually, or at least without any certain order or course of time observed in their flowing.

And the said Excrementitious Humors are sometimes white and flegmatick, very like to Whey or Barly Cream; sometimes they are pale or yellow, or green by the mixture of Choller; sometimes watery by the admixture of serous humors; sometimes blackish, by the admixture of Melancholy; sometimes sharp and corrosive, so as to eat into, and exulcerate some parts of the Womb; sometimes they are strong, and have a beastly smell; and other whiles again, are not at all offensive in that kind.

This Disease is wont to seize upon grown Women for the most part, and such as are of ripe Age; yet are not Virgins always free from the same: so that some have done ill in daring to affirm. That such Maids as are troubled with this disease, have parted from their Virginity, taking their Ground from the straitness of those passages Naturally: For if Virgins have the Veins of their Wombs so large, that their wonted Courses can flow through them, why may not the Whites likewise drop out by the same passages, seeing they are many times more thin and fluxitive than the Blood it self, as being Wheyish and Cholerick. The same is confirmed by the produced Experience of most Learned Physitians; and daily Practice teacheth me as much, viz. That the most chaste and perfect Virgins in the World have had this Infirmary, of whom there could be no suspicion that they had been corrupted. And *Fernelius* doth witness, That he saw a Girl eight years old which had this Disease, and was afterward a long time grievously troubled therewith.

The Excrementitious Humors aforesaid are bred either in the whole Body, or in some principal part of the Body, or in the Womb it self.

CAUSES. If the humors flow from the whole Body, they proceed either from bad Dyet, or from a vicious habitual distemper of the whole Body, and they take their course unto the Womb as unto a Cinque or Common-Shoar, wherunto the rest of the parts of the Body disburden themselves.

The particular parts, by whose consent the Womb suffers in this Disease, are chiefly the Brain, Stomach, Liver, Spleen, Mesentery and the Bladder, which dispatch their Excrements unto such parts as are more weakly, and so more disposed to receive them.

These Excrementitious Humors are bred in the Womb, because when it is unable to digest its proper nourishment, by means of the weakness of its Retentive or Concoctive Faculty, the greater part of its Aliment is turned into Excrements, being imperfectly digested or corrupted rather. It is imperfectly digested in cold distempers of the Womb; and it is corrupted in hot distempers thereof. And seeing the Womb by want of Digestion is defrauded of its Nutriment, it presently draws new Aliment, which being turned into Excrements, is by the Womb expelled as unprofitable; and new Aliment, is continually drawn; whereby this flux of evil Humors from the Womb, becomes both plentiful and continual. The Womb is weakened and more disposed to the Reception of these Excrements by Child-bearing, travelling in Child-birth, Abortion and Contusion, Inflammation, Imposthumes or Ulcer.

S I G N S. The Signs of this Disease are referred to the Infirmary it self, to the part affected, or to the cause producing the Disease.

DIAGNOSTICK. The Disease it self is easily known by relation of the sick party, and it is oftentimes attended with divers Symptoms, *viz.* Paleness of Face, want of Appetite, sickness of Stomach, short breathing, weakness, swelling of the Eyes, fullness, pensiveness and sadness, thick Urine, turbulent, and many other accidents, which differ according to the diversity of the Humors offending as we shall declare more distinctly by and by.

The part affected, and the place in which these Excrementitious humors causing the Flux are bred, may be known by these following tokens.

If the matter of the Flux is bred in the whole Body, these signs do shew it. *viz.* Weariness and heaviness, not proceeding from any work; of which the Patient is eased, having disburdened her self by the flux plentifully; and then again, when new matter is collected, she begins to be weary and heavy as before; her Veins are full; her Feet, Hands and Thighs are apt to be numbed. And these signs do especially discover only a plenitude of humors. But that corrupt humors do abound in the whole Body, is known by an evil habit in the whole Body, [that is, an ugly sickly appearance in the looks, and whole outward state of the Body] a puffing up of the Hands and Feet, and itching and stinging in the whole Body, if the humor be sharp, and many such signs as these.

If the matter offending reside in some peculiar part, the Symptoms and Excrements proper to that part discover the same. As for example, A pain, heat, and swelling of the Liver, with Cholerick Excrements, do shew the Liver to be affected; and the same Symptoms happening on the left side, with Excrements of a Melancholick appearance, do argue the flux to spring from the Spleen: Flegmatick Excrements, Stomach sickness, want of Appetite, and sometimes extream Appetite, frequent corruption of the meat, and sour belchings, or fatty, (as of the Dripping pan, or over-scorched flesh) as sure tokens of the Stomachs faultiness.

Pain of the Head, Frothy Excrements, some usual evacuation by the Mouth or Nostrils being stopped, do witness that the flux springs from the Head. If none of the aforesaid signs of some part affected appear, then we may conjecture that the flux proceeds primarily from the Womb. Also the Woman (in such a case) is well coloured, the matter flowing is but little in quantity, being the Excrement of the womb alone. There have preceded such causes as weaken the Womb, as are hard Travel, Abortion, a Fall upon the Belly or Back, immoderate Carnal Embraces, especially if the Woman have been too young married, Tumors, Ulcers, and others Infirmities of the Womb, whose signs are propounded in their proper Chapters.

The Humor causing the Flux is known chiefly by the colours of that which comes away, which were a little before declared, and which appear in the cloaths wherewith it is received, if, as *Hypocrates* teacheth in his second Book of Womens Infirmities, the said cloaths being dried, shall be after washed in Water alone, and dried in the shadow: for so they manifestly declare the colour of that Humor which most abounds in the Excrements. Hereunto may be added the signs of an humor abounding in the whole Body, usually delivered in that part of the Institution of Physick, which treats of Signs.

In the last place, We are to propound such Signs as distinguish this disease from others like unto it; as namely, Excretion of Purulent matter proceeding from an ulcer of the womb, and the Gonorrhœa, or flux of Seed.

It is distinguished from Purulent matter by the signs of an ulcer in the womb, which shall be set down in their proper Chapter; as likewise because the Purulent Matter or Quittor is much thicker, whitish, and lesser in quantity, if it be digested rightly; but if it be of a goary, sanious and fleshly appearance, like blood and water mingled, there is then blood amongst the matter, and it is wont sometimes to come away with strings from the womb, and with exceeding pain: also the Women that have Ulcers in the Womb or its Neck, admit not of Copulation but with pain, which exasperates their Disease: but those which are troubled only with the Whites, do willingly and patiently suffer themselves to be embraced by their Husbands.

In the Gonorrhœa, the matter which comes away is not so much in quantity, is thicker, of a more shining whiteness, holds up longer from flowing, and seldom or never stinks. But if it be a virulent or venemous Gonorrhœa (such as accompanies the Letchers pox) it is known by sharpness of Urine, Ulcers of the privy parts; and other signs that argue Malignity.

PROGNOSTICK. The Predictions or Prognosticks of this Disease, are as followeth:

This disease in one respect may be called good, in another respect bad: Good, forasmuch as commonly it is not attended with any danger of death; and bad, because it is a stubborn Disease, long lasting, and most exceeding hard to be cured; forasmuch as the Flux of evil humors having once taken this course, is very hardly turned out of its Channel, because the Womb (as we said before) is the Draught of the whole Body, whereby even in time of health, the superfluous humors of the whole Body are monthly evacuated.

If this Infirmary get head, it may bring many other Evils upon the Patient, as Barrenness, falling down of the Womb, Exulceration, Cachexia, Dropsie, and Consumption.

A Flux of Whites, blewish, bloody, stinking, is worse than the white, pale, not stinking.

The longer this Disease hath lasted, the harder it is to cure.

It attends old Women to the grave for the most part, because of their abounding with flegm, and the weakness of their Concoctive Faculty.

CURE. The Cure of this Disease is to be begun by a convenient purging of the Peccant Humor. And because flegmatick and wheyish Humors do most commonly offend, such things as purge those humors must chiefly be used, and with them Purgers of Choler, or Expellers of Melancholy must be mingled, according as Choler or Melancholy is adjoyned to the humor offending. An Apozeme therefore may be appointed both altering and purging for four or five days by way of a solemn purgation, always remembring that to the purging Medicaments, some astringent and corroborating things are to be added, lest the Humors of the Body being stirred, should fall more abundantly into the Womb.

Touching Blood-letting, it is a question, whether it be convenient in this Disease or not: For seeing this Flux is caused by ill Humors in the Body, which by blood-letting are drawn into the Veins, and so may corrupt the Mass of Blood; it seems there is in this case no place for bleeding. Also, since in this lingering Disease, the Patients strength is much abated, and the Body often brought into a Consumption, it seems unfit to weaken it yet more by blood-letting, and so defrauding it of its nourishment. Which Controversie is thus decided; That if the flux be not pure and simple, but in some measure mingled with blood, and it appear reddish, that then a vein may be opened; as also if the Liver is very much heated, and the sharpness of Choler be joyned with the flux. In other Cases, especially if the Flux have endured long, it is better to abstain from blood-letting.

Binding of the upper parts of the Body, and Cupping-glasses applied to the shoulder-blades, and to the back, will be very useful to draw the Humors upward; also rubbings of those parts will be specially profitable, first with finer and softer cloaths, then with rougher and courser, which *Galen* daily practised upon the Wife of *Boetius*, whom he cured in the space of thirteen days, as himself relates in his Book of Prognosticks dedicated to *Posthumus*.

And besides the Universal Purgation already propounded, ordinary Purgations are also to be administered, and frequently reiterated, that the superfluity of Excrements may be the better evacuated by little and little, and that Nature may get a custom to void those Humors by stool, which formerly had their recourse unto the Womb. To this intent, Magistrial Syrups, Pills, and usual Opiates may be compounded, suitable to the temper of the Patient, and the Humors offending. In this Disease caused by flegm, *Mercatus* commends a Syrup of the Decoction of *Lignum vitæ*, with Senna, Turbith, and Agarick; as also the following Pills:

Take of the Mass of Pills of Hiera Picra one dram; Agarick trochiscated one dram and an half; with Honey of Roses make them into Pills, of which let the Patient take early in the morning six or seven every third day: afterwards only three of them every fifth or sixth day.

Or for the greater Astriction, as well as purging, they may be thus compounded, in whatever Complexion.

Take Choyce Rhubarb oft-times sprinkled with the Juicy of Roses two drams; Citrine coloured, white and black Myrobalans steeped in the Juicy of Roses, of each one dram; Mastich one scruple; Spicknard half a scruple: With Syrup of Roses make all into a mass of Pills. Let the Dose be one dram twice in a week.

For a Flux arising of Serosity or Wheyish Excrements, Jallap is most excellent, which may be thus used;

Take Jallap finely powdered one dram; Cinnamon finely powdered half a scruple. Mix them, and with a draught of Chicken Broth, give it the Patient in the morning.

A Laxative Pisan daily taken for a month together, hath cured a stubborn Flux of Whites, when nothing else could, as is to be seen in our Book of Medicinal Observations.

Vomiting is likewise much commended in this Disease, especially in such as are easie to vomit, because such indigested humors as are wont to be gathered about the Stomach, are hereby both evacuated and powerfully revelled or drawn back from the Womb among convenient Vomits. *Diasarum* of *Fernelius* his Invention, is commended, half an ounce whereof given in Water and Honey, or with one ounce of Oxymel, and warm Chicken Broth, twice or thrice in a month, moves three or four Vomits, without any trouble.

After sufficient Purgations, sweat may be procured to expel the remnants of the Excrementitious Humor; and also to cause a further Revulsion of the Humors falling into the Womb.

To this intent, a Decoction of *Lignum vitæ*, and Saxaphras, will be good in such as are flegmatick; and of China and Sarsaparilla in such as are Cholerick and Melancholick; cooling and temperate Herbs added, lest the evil Humors be more exasperated, and become more sharp.

Or sweat may be provoked by Decoction of hot Herbs, as Nep, Calamint, Fennel, Hyssop, Elicampane, Chamomel, Dill, and such like; the evaporation of which Herbs being artificially received upon the Patients Body, will procure sweat. A Bath may also be made of the same Decoction, by which sweat may be provoked. But in hotter Constitutions, a Bath of fresh fair Water, blood-warm, will be sufficient, in which moderate and gentle sweats only may be procured.

Sulphurous Baths do also powerfully cause sweat, and consume the reliques of this Disease: and by help of such Baths we have known some Women cured, that no other means could help.

As touching Piss-driving Medicines, its a weighty question whether or no they are fit to be administered in this disease. For they do not only provoke Urine, but the Courses likewise, by heating and attenuating the Humors contained in the Veins. Yet are they allowed by all Authors, and by Galen himself, who used them in the Cure of the Wife of Boetius: And the reason is, Because Piss-drivers do provoke Urine primarily, and the Courses secondarily, and as it were by accident or chance. Again, the Kidneys do perpetually draw Wheyish Humors unto themselves, whereas the Womb does only receive them; whereupon it is credible that the greatest part of such Humors will have recourse unto the ways of Urine.

Now the Piss driver which Galen used in the aforesaid Woman, is a decoction of Asarum and Smallage in fair Water; howbeit, it will be better tempered if it be made in Succory Water.

A more compound Piss-driving Broth, may be thus made:

Take the Roots of Asarum, and of Smallage, of each one ounce: Leaves of Calamint, and Soldanella of each one handful: Elder flowers half a handful: Polypody, and Carthamus seeds of each half an ounce: boyl all to a pint. Give five ounces of the Liquor or Broth strained, in the morning. If you would make it purgative, add a little Agarick, and a little Turbith boyled with the rest, in a Rag.

Its questioned whether Issues in the Legs are good for this Disease; for by drawing the Humors downwards, they may increase the Flux. Howbeit, experience hath shewed that they do good in old Fluxes, because by such passages, some of the Excrementitious Humor is voided.

If Cholerick and sharp Humors cause this Disease, not only purgers of Choler are to be given, but likewise Alteratives which cool and thicken, and are moderately Astringent; such as these Juleps following.

Take of the Leaves of Succory, with the Roots of Endive, Borrage, Lettuce, and Purslain, of each half a handful: of new Sebestens and Jujubes, of each seven in number: of the four greater cold seeds, and white Poppy seeds of each half a dram; of red Rose-leaves a pugil. Boyl all in Water sufficient unto a pint, and in the strained Liquor Dissolve Syrup of Quinces, or of dried red Roses three ounces; and make a Julep for three Doses.

But if the Melancholick Humors abound, they are to be altered and purged away, by Medicines proper to that intent.

The use of Chalibeate milk taken forty days together, the quantity of four or five ounces, is very proper for either of the aforesaid Humors; whereunto may be added towards the end, a little Bole-armenick, or Terra Sigillata.

In the whole cause of curing, it is to be considered, whether any part of the Body be misaffected, and so may send the matter of the Flux into the Womb; and if so, then care must be taken for the Cure of that part.

For if Humors flowing from the Brain, do cause this Disease, Remedies are to be applied to that part: especially such as revel and divert the Fluxion, viz. Cupping-glasses frequently fastned upon the shoulders and Back, Medicines snuft up into the Nostrils, Masticatories, Vesicatories, and Issues made in the hinder part of the Head, or in the nape of the Neck; instead whereof Setons may be used, which are more effectual. And Fabritius Hildanus in the forty one Cure of his first Century, relates that he Cured a Woman long troubled with the Whites, and thereby Barren, by a Seton.

If the Humors flow from the Stomach, Liver or any other part, suitable Remedies must be applied to that part.

The Body being prepared, and the offending Humor for the most part evacuated, or derived another way, We must proceed to corroborating and Astringent Medicaments. But they must never be used until the Antecedent matter be well evacuated and diverted. Otherwise, those Humors retained, do rush into the more noble parts, and stir up more grievous Symptoms. As Galen in the aforesaid place relates to have befallen the Wife of Boetius, whose Belly swelled, by means of the unseasonable use of astringents, by which the Wheyish Humors were retained in her Body, which were wont to pass away in the Flux. It is likewise to be remembered, that whilest we are in the use of Astringent Remedies, we do then divert the Antecedent Matter, and hinder the same from increasing, by the Remedies aforesaid. Amongst these principal corroborating Medicines, Treacle is reckoned, which is to be used in flegmatick Constitutions. Conserve of Roses, and of Wormwood, may

may be mingled with the Treacle; Or the following Opiate may be commended.

Take Conserve of Rosemary-flowers one ounce: Conserve of Calamus Aromaticus two drams: Species of Diarrhodon Abbatis, and of Aromaticum Rosatum, of each one dram: Red Coral prepared half a dram; Treacle two drams; with Syrup of preserved Citron peels make all into an Electuary. Or,

Take old Conserve of Red Roses, Roots of Comphry, Bugloss, and Citron peels of each one ounce: Red Coral burnt, shavings of Ivory, Bole armenick, Terra Sigillata, Dragons blood of each one dram; with Syrup of Red Roses dried make all into an Opiate.

The powder of Sage, Sarsa-Perilla, and Balauftins taken every morning in Broth, is the Court Ladies Medicine.

Zechius commends this following Electuary, which he had often used with happy success.

Take Gum Arabick and Gum Tragacanth, of each two drams; white and red Coral, burnt Egg-shells, Harts-horn, Dill-seeds, Amber, of each four scruples; Honey of Roses, as much as will make all into an Electuary. Of which give half an ounce two hours before meat. Let the Patient swallow it down, and drink after it four ounces of Plantane Water, mingled with two drams of red Wine.

Juleps may be made of Rose-water, Knot grass, and Plantane waters, with the Syrup of Myrtles, dried Roses, and the like: Some of the aforesaid powders being added.

Mercurialis says he frequently used a Decoction of Oak-leaves, with the Runnet of an Hare: wherewith he cured many Women of this Disease. His manner of making his Medicine was thus.

Take of the Decoction of Oak leaves five or six ounces, of the Runnet of an Hare one dram:

Let her take this Medicine eight or ten days.

When the Disease comes from Choler, the following Syrup may be prepared, which is strengthening, Astringent and cooling. Thus,

Take red Rose-water four pints: Spirit of Vitriol, so much as will make the Water a little sharp; but so as scarce to be perceived by the taste; red Roses dried three pugils; Steep them in the Water cold, two days; Strain it, and add thereto so much Sugar of Roses, as will make a Syrup

And Finally, Those Astringent remedies mustred up in the former Chapter, touching the Immoderate Flux of the Courses, may be likewise useful in this Cure.

The Patient may use instead of ordinary drink, a Diet-drink of China roots or Mastich-wood, with Astringent Wine mingled.

The same time that the Patient takes in such things as are Astringent, and do strengthen the Womb, she must likewise use outward Remedies applyed to the place affected, viz. Fomentations, Baths to sit in, Oyntments, Plaisters, Injections, Fumigations, and Pessaries; such as have been prescribed against Immoderate Courses.

But before these external Astringents are applyed, the Womb must be cleansed. Otherwise such impurities would be therein retained, as returning back into the Body, may cause more grievous Diseases. And in our cleansing, we must regard the Humors offending; for one sort of Cleansers are fit for Flegmatick, another for Cholerick Humors.

If the Humor be Cholerick, let the Cleansing Injections be made of Barly Water, Whey Water sweetned with Sugar. If it be Flegmatick, let them be made of Hydromel, or of the Decoction of Wormwood, Feverfue, and the like.

Also a Detergent Pessary may be made of Treacle, and Turpentine; or of Mercury-leaves bruised and wrapped up in a fine Linnen rag very thin worn.

Let the Patient use these Cleansers before the Astringents be applyed, until her Womb be well purified; which may be known, if little or no Humors come therefrom.

After the use of the Cleansers, the Fumes are first to be received over a Close stool, because they dry and strengthen the Womb; and they may be fitly made of Frankincense, Laudanum, Mastich, Sanders, Nutmeg, and red Rose Leaves. And afterwards we must proceed to other Astringent Remedies.

Chap. 5. Madness from the Womb.

WOMB-Fury is a sort of Madness, arising from a vehement unbridled desire of Carnal Imbracement, which desire dis-thrones the Rational Faculty so far, that the Patient utters wanton and lascivious Speeches, in all places and companies; and having cast off all modesty, madly seeks after Carnal Copulation, and invites men to have to do with her in that way.

CAUSE.

This Immoderate desire of Carnal Conjunction, springs from the abundance of Seed, from its Acrimony, and heat transcending the bounds of Nature, whereby it is made to heave and work in the Seminal

Seminal vessels as Yest works, whereby the parts made for generation, are vehemently stirred up, and Inflamed with lustful desires. And from the same Seminal matter so affected, Vapors ascend unto the Brain, which disturb the Rational Faculty, and depose it from its throne. Howbeit, the Immoderate appetite of carnal Conjunction alone, without the help of any such vapors, is able of itself to master the Rational faculty, as also all other Immoderate passions; but especially Immoderate Love, which is called *Eroticus affectus*, or Love-Melancholy.

Now the Seed acquires the aforesaid qualities, when it is over-long retained in Bodies prone to lust, and full of heat; and therefore this Disease is incident to Virgins, and young Widows peculiarly; although it may also be-tide married Women, that have impotent Husbands, or such as they do not much affect, whereby their Seminary Vessels are not sufficiently disburdened, or their amorous affections duly satisfied.

Some hold, That the Seed being corrupted, acquires a malignant quality which causes these grievous Symptoms. But they are not well able, so holding, to shew any difference between this Disease, and fits of the Mother, which arise from the Seed being corrupted, and thereby infected with a malignant quality. For although several degrees of putrification do produce different degrees of malignity, from whence a great variety of symptoms are wont to arise; yet these manifest qualities aforesaid, viz. great plenty of Seed, its heat, Acrimony, and Fermentation in excess, together with the great heat of the genital parts, are sufficient to produce this Disease we treat of.

Now the Causes producing so hot, plentiful and sharp stinging Seed, are youthful age, Sanguine complexion, and Cholerick or melancholick adust; meats that nourish much, a plentiful table, especially if the meat be spiced; the frequent smell of Spices, Musk, Amber-greece and such like: large sleeping, and upon soft beds filled with Feathers, or Down; amorous Courtings, reading of lascivious Books, Dancings, and other pleasures usual in the meetings of youthful persons.

SIGNS.] The Signs of this Disease may easily be gathered out of what hath been already said: But because it is wont to discover itself gradually, by little and little, it is fit to relate its progress. In the beginning, whilst the sick persons do yet enjoy their understanding, they are more sad, and silent than ordinary, but with a wanton rowling of their Eyes, and a ruddiness of countenance; which ruddiness is sometime more than at others: especially when mention is made of matters belonging to bodily lust, for then their breathing is changed, and their Pulse too, by Sympathy of the Heart, which made *Galen* boast that he knew the furious lusts of Women by their Pulse; because such Lovers do of a sudden undergo divers changes of their Pulse, when desirable objects are presented unto them, or brought into their remembrance. Afterwards when the Disease is exasperated, they begin to scold, and to weep, and ever and anon they fall a laughing, they speak many things without rime or reason, unadvisedly, out of which no certain sense can be gathered; a while after, they repent of this their folly, until another fit take them, by reason of the inordinate motion of the Peccant matter, which observes no certain period in its Fomentations. Women possessed with this kind of dotage when the Disease is come to its height, do openly before all the World ask men to lie with them, expressing the action of Generation in the most proper and broadest language their Mother-Tongue affords.

PROGNOSTICK.] As for the Prognosticks of this Disease. It is a curable sickness, if means be used in time. But if it continue long, and take firm rooting, it turns into a true and perfect Madness.

There is great hope of Recovery, when the distance between the fits begin to be longer than ordinary, or when the Patients Body being grown lean, becometh fat again, and when mention of matters pertaining to Generation, doth no longer affect or disturb them.

CURE.] The Cure of this Disease tends to correct the hot distemper of the Bowels, especially of the Womb, and the Blood and Seed; likewise to evacuate the sharp Humors, and Seminal matter offending. All which may be done by the following Remedies.

And in the first place, Blood must be often drawn, as far as the Patients strength can bear; that so the whole Mass of Blood, and the Womb it self may be cooled, and the fervent Blood may be withdrawn from the Veins of the Womb.

And if the Patients monthly Courses be stopt, the inferior Veins are afterwards to be opened, that they may by that means be brought down.

But if the Blood seems to have recourse to the Hemorrhoid Veins, which is known by their swelling and redness, the said Veins are to be opened by Application of Leeches.

Afterwards a Purgation is to be given, made of the gentle sort of Medicines purging Choler or Melancholy, according as the one or other Humor shall seem to abound.

This purgation is to be followed by Juleps that prepare the matter offending, viz. Such as cool and gently open; which must be given three days together.

Then a more strong purgation is to be administred, which may wholly extirpate the foresaid humors. To which intent those Purging Medicaments may be used, which were set down in the Cure of Madness, which must be now and then repeated.

After iterated Purgations, the following Bath being frequently used in the whole Course of the Disease, will be very useful to cool the whole Body, and temper the fervor of the peccant Humour.

Take Leaves of Lettuce, Willow-Tree, Water-Lillies, Vine-Tree, Purslain, Pennywort, of each a handful; Flowers of Violets, Water Lillies and Roses, of each two handfuls. Boyl all for a Bath, into which Blood warm let the Patient enter twice in a day, without sweating, far from meal tide.

And forasmuch as a compleat and entire Bathing cannot conveniently be continued for so many days together; at least the Patient may bathe her lower parts frequently in a part of the aforesaid Decoction, yea or of meer Water, and the liquor must be only warmish: For the prime intention of this Cure is, that the Womb may be cooled to the purpose: which is confirmed by a remarkable Experiment propounded by Dr. Harvey, in his Teratise of the Child-bearing of a Noble Lady, who had been more than ten years besides her self, by reason of this womb-fury; whose womb (after all things had been tried to reduce her to her wits, in vain) fell out, which they did not put up till the coldness of the external Air had healed its distemper; the event was, as the Doctor imagin'd, and she grew quickly well, and her Womb was at last restored to its proper place.

For the greater cooling of the Body, it may be convenient to give the Patient Whey or drink many days together.

And to be brief, whatever hath been prescribed in our Cures of Madness and Hypochondriacal Melancholy, will be good in this Disease, according as it shall be caused either by Choler or Melancholy.

Unto all which may be added such things, which by a peculiar property diminish and cool the Seed: Among which take these that follow for example:

Take Leaves of Water-Lilly, Willow, Agnus Castus, of each four handfuls: Lettuce, Purslain, Pennywort, or Two penny Grass of each a handful: the four larger cooling Seeds, Lettuce and white Poppy seeds, of each half an ounce: Dill-seeds two Drams: the flowers of Water Lilly and Violets, of each one handful. Let all be stamped, being fresh, and let them be sprinkled with juyce of Lemmons, and distilled in Balneo Mariæ; and to every pint of the Water, add a dram of Camphire. Let the Patient take an ounce divers times.

Or of all, or some of the Simples aforesaid, a Decoction may be made, and sweetned with Sugar, and a little Camphire put to it, to be taken divers times one after another.

Or an Emulsion may be made of the greater cool Seeds, Lettuce seeds, and white Poppy seeds, extracted with the waters of Lettuce, Willow and Water-Lillies, and sweetned with Syrup of Violets.

An Electuary may be prescribed after this manner:

Take Conserve of the Flowers of Water-Lillies, Violets, and Agnus Castus, of each half an ounce; Conserve of Roses half an ounce; Lettuce stalks preserved one ounce; Coral and Smarage prepared, of each one dram: With Syrup of Violets and Water-Lillies make an Opiate.

In the greatest extremity of the Patient's raving, such things as procure sleep are very profitable, both inward and outward Medicaments, as they are set down in the Cure of Phrenzy and Madness.

In the whole Course of the Disease, Clysters which cool and gently purge, are to be used, taking heed of sharp Clysters, and such as vehemently purge, which do exagitate the humor contained in the Womb or its Vessels, whereby the Symptoms are wont to become more fierce.

Also Injections may be made into the womb, of the Decoction of such Herbs as have formerly been set down for Baths and other Remedies, whereunto *Sal Saturni* may profitably be added.

Frequent Clysters may likewise be good to the same intent, being made of Vinegar allayed with Water.

Also cooling Oyntments are to be applyed to the Loins, Privy, the Share, and between the Water-gate, and the Dung-gate, made of Oyl of Water-Lillies, Oyntment of Roses, *Unguentum Album Camphoratum*, with the Juyces of Nightshade, Henbane and Water-Lillies melted together, adding a little Camphire.

Also a Plate of Lead is good to be worn continually upon the Reins.

In regard of the immediate Cause, seeing the evacuating of the sharp and corrupted Seed, may cure the Disease; it is very good Advice in the beginning of the Disease, before the Patient begins manifestly to rave, or in the space between her fits, when she is pretty well, to marry her to a lusty young man. For so the Womb being satisfied, and the offensive Matter contained in its Vessels being emptied, the Patient may peradventure be cured.

But if the Patient cannot so conveniently be married, or the condition of her life will not bear that estate, some advise that the Genital Parts should be by a cunning Midwife so handled and rubbed, as to cause an Evacuation of the over-abounding Sperm. But that being a thing not so allowable, it may suffice whilst the Patient is in the Bath, to rub gently her Belly on the Region of the Womb, not

coming

coming near the Privy Parts, that the luke-warm temper of the Water may moderate the hotness of the Womb, and that it may by the moisture be so relaxed, as of its own accord to expel the Seminal Excrement, and that nothing else be done with the Hand, save a little to open the Womb, so as the Water may pass into its more inward parts; forasmuch as the Water will operate as much as any of those Medicines which we are used to extinguish the seed withall.

Pessaries may be compounded to the same intent, of the Leaves of *Mercury* bruised, with a little Myrrh, or the Powder of *Aristolochia* or Birthworth; which must be put up when the Patient is in the Bath, lest otherwise the Womb should be overheated; and after an hour, it must be taken away. And afterward, let an Injection be made into the Womb of Whey, or Barly-Water, with a little Juice of Nightshade, Housleek, or Hemlock, which is especially commended in this Disease.

To purge out the Seed, the following Bolus or Morfel will be very profitable:

Take of Venice Turpentine three drams: Agarick Trochiscated one dram: Carrot seed, Hempseed, and Lignum-Aloes powdered, of each eight grains: With Sugar make all into a Bolus or Morfel to be swallowed.

If the Disease do yet continue, let Issues be made in her Thighs; for nothing is better than by such means to draw the matter downward, from the Womb, to those inferior parts.

And if swellings of the Spleen shall arise, and Obstructions, during this Cure, as it oftentimes happens, they must be carefully cured with their proper Medicaments.

Finally, Because in this Disease the Brain and Heart are grievously affected by reason of Vapours arising from the Womb, they are both of them diligently to be provided for; the Brain being secured by rubbing and chafing the lower parts, and by Cupping glasses frequently fastned upon the Hips and Groins; and the Heart defended by Cordial things outwardly applyed, both Liquid and solid, such as are described in our Chapter touching decay of strength.

Chap. 6. Of the Mother-fits, or Womb-sickness.

WHen Seed and Menstrual Blood are retained in Women besides the intent of Nature, they putrifie and are corrupted, and obtain a malignant and venomous quality: from whence venomous Vapours are elevated and carried to divers parts of the Body, from whence divers Symptoms do arise, and those so divers, that *Democritus* might justly say in his Letter to *Hypocrates*, that the Womb is Author of a thousand sad Sorrows, and innumerable Calamities. And *Hypocrates* himself says in his Book of Virgins Diseases, *That miserable Woman-kind are commonly laden with incomprehensible and manifold Diseases.* All which Infirmities we intend to explain in this Chapter, under the name of *Mother-fits*: herein imitating *Galen*, who in his Sixth Book of Parts affected, and the Fifth Chapter, says that the Mother or Hysterical Passion, is but one name indeed, yet comprehending under it divers and innumerable Accidents. Notwithstanding all late Writers in a manner, do handle the Suffocation of the Womb, under the Title of Hysterical Passion, calling a particular Symptom by such a name as is common to many others, because it, of all the rest, is most frequent and most troublesome. But herein the very best Authors seem to have been superfluous in their Treatises of Womens Diseases, while in different Chapters they describe several Diseases springing from the Womb, viz. Suffocation of the Womb, Head-ach, Epileptical Fits, Palpitations of the heart, Pulsation of the Arteries about the short Ribs, and in the Back; the Diseases of the Stomach, Liver and Spleen arising from the Womb, and divers pains in sundry parts of the Body arising therefrom; seeing all these Infirmities do arise from one and the same cause, and are to be cured by the self-same Medicines; so that the aforesaid Authors are fain to repeat the same things over and over, in several Chapters, not without much weariness to the Reader.

We therefore, That we may more briefly and Methodically set down the Nature of all these infirmities, think it worth our labour, first to set down the universal Causes of them all; and afterwards to declare how those Diseases arise from the said Causes.

CAUSE 5. We have shewed in the beginning of this Chapter, that there are two special Causes of all these Symptoms, viz. the Womens Seed, and the Menstrual Blood, being retained besides the intent of Nature, and corrupted, and possessed of a malignant and venomous quality; out of which malignant Vapours do arise, and afflict divers parts of the Body. Unto which Doctrine generally propounded, two other things of greatest moment must be added, viz. First, That not only the Seed and menstrual Blood do produce Hysterical or Womb-sicknesses; but divers Humors also of an excrementitious Nature flowing into the Womb, and by a long abiding, growing putrified, and sending out filthy Vapours. This is verified by many Ancient Women, who being destitute of menstrual Blood and of Seed, are yet very much subject to these Womb-sicknesses or Hysterical passions. Secondly, That not only Vapours arising out of the aforesaid substances, are causes of these distempers, but the very Humors themselves are a cause, which finding no free vent by the

the Veins of the Womb (into which as a Common-shore Nature disburthens superfluous Humors) by reason of the stoppages of the Monthly Courses or of the Whites, they flow back again into the superior parts of the Body, and do infect the said parts with that vitious quality, which they have contracted by their long abiding in the Vessels of the Womb, or by their mixture with Seed, or Menstrual Blood corrupted.

These foundations being thus laid down, let us see how Hysterical Symptoms are stirred up by the Causes aforesaid, beginning with the Suffocation, or strangling fits of the Mother, which is the most frequent and principal Sickness of these kind of Women, being accompanied with very many, and those most grievous Symptoms. For besides their breathing impaired, and sometimes abolished, their whole Body becomes cold, their Speech and Pulse is intercepted, so that they lie like dead Women; and some have been accounted dead, and laid out for Burial, and yet afterward Revived.

Now this Sickness comes by fits, which make their return sometimes sooner, sometimes later; and endure sometimes a longer, sometimes a shorter time, according to the quantity of the Humor offending, which is sometimes quickly collected, and sometimes long in gathering; sometimes soon dissolved, and sometimes long before it can be dissolved: For such like causes of Diseases in the Body of Women, have their times of digestion and exaltations; which having arrived unto, they do suddenly, and as it were in a moment, break forth into action. Yea, and such Humors being already collected in the Body, may for a season lie hid, until being stirred by some internal and external Cause, they shed forth their poisonous blasts and vapors into other parts of the Body. Now the most frequent and noted Causes of this Commotion and Agitation of these Humors, are sweet smelling things coming near the Patients Nose, or sweet meats taken in, which quickly bring Women subject to this infirmity into their fits; also vehement Anger, Terror, and other grievous Passions of the Mind.

DIAGNOSTICK. Now there are divers Degrees of this Sickness, according as the Matter offending differs in Quantity, or Malignity. For sometimes the Choaking-Fits, with want of breathing, are light and soon go over; sometimes it is extream, so that the Patient breathes not at all, and is attended with other Hysterical or Womb-sickness, such as Vomiting, Raving, Convulsions, and Swoonings, or Faintings away.

And for the most part, more grievous Symptoms do arise from corrupted Seed, than from Menstrual Blood, or other corrupted Humors. For look how much Seed retaining its Natural Disposition, is of a more excellent Nature than Menstrual Blood, by so much does it degenerate when corrupted, into a greater or worse kind of Venom or Poyson.

There are likewise other Differences of this Choaking Mother-sickness to be observed, viz. That sometimes the Patients have their Breath stopt as it were, sometimes they complain that they are choaked, as it were with a Rope that strangled them; and sometimes their breathing is much abated, or abolished, without any pain or sense of strangling. The Reason of which diversity is this; That the simple Suffocation, and difficulty of breathing, do arise from abundance of vapors, which do sometimes very much abound in Hysterical or Womb-sick Women, especially when the Hysterical Passion, and Hypochondriacal Melancholy are joyned together. Which vapors or Winds do compress the Midriff and Lungs, as it is wont to fall out in the windy *Asthma*; but the sense of choaking, in which the Patient feels her self as it were strangled in her Throat, depends upon a special property of the venomous vapor; as there are other Poysons in the greater World, which have such a property of throttling and choaking, as is known of one sort of Mushrooms. And that the venomous qualities bred in Hysterical Women are divers, *Galen* does sufficiently hint in his sixth Book of the parts affected, Chap. 5. where he compares the malignity of this vapor, to the venom of the Fish *Torpedo*, and to the sting of the *Scorpion*; which Poysons, though in quantity they are small, in operation they are mighty; and being received into mans Body, they do in a short space of time, grievously afflict the same, and produce therein most vehement Symptoms. As for Respiration diminished or abolished, it is caused by the said vapors being endued with a Narcotick or Stupefactive power, which being mighty contrary unto the Heart and vital Spirits, their action is thereby hindered, whence follows a cessation of Respiration, because there is now no need thereof. For seeing that drawing of Breath is necessary to cool our Hearts, when the heart is extreamly cooled by the venomous vapors aforesaid, it needs none of that cooling which is caused by drawing in the Air, and so breathing ceases, because there is no use thereof. We may also say, That the said venomous and stupifying vapor, does assault the Brain, and hinder the Influx of the Animal Spirits, whereby the motion of the Midriff and the Muscles serving for respiration, is hindered; add hereunto, That the vital Spirits being destroyed, the Animal Spirits, which are made of the vital, must needs be destroyed likewise.

In the place before alledged, *Galen* resolves a Doubt, which is this: That seeing it is generally held that a man cannot live without breathing, therefore it is impossible that Hysterical persons should in their fits be quite deprived of breathing. To which he answers, That in an extream cooling of the

Heart there is no need of respiration, which if it were stopped, and the Heart vigorous and hot, present death would follow; but that little warmth which is yet remaining in the Heart, is cherished only by transpiration, or ventilation through the Pores of the Body; even as Creatures lying all the Winter in holes, do live only by transpiration, because they are exceeding cold, and that little heat they have, needs no ventilation by way of drawing in the Air into their mouths.

Besides, The fore-mentioned cause of Womb suffocation, viz. A Malignant and Venomous Vapor, some add another, Namely, The ascending or rising of the Womb into the superior parts of the Body whereby the Stomach and midriff are compressed; from whence, not only Hysterical Suffocations, but other sicknesses also do arise. This ascending of the Womb, *Hypocrates* propounded in his Book of the Nature of Women, in these words: *The Wombs of Women being turned from their Natural posture, do strive towards the Liver, and bear violently upon the Midriff: for they are carried upwards, seeking moisture to refresh them, being over dried with Labor; and the Liver is the fountain of pleasing moisture.* And *Fernelius* in his sixth Book of Pathology, that is, of Diseases and their causes, Chap. 16. says, he had often felt the Womb thus ascending, bearing up against the Stomach like a round Globe, and grievously oppressing the same, from whence it hath been often thrust down by force of hand, and manifestly driven back into its proper place. *Eustachius Rudinus* in the Second Book of his Practice, in the 51. Chapter, saies the same thing, viz. That he with his own hand, hath felt the Womb arising as high as the Navil, and sometimes above the same, and hath by little and little thrust the same down into its proper place. But *Galen* in his sixth Book of Parts affected, Chap. 5. opposes this Opinion, and teaches that although the Womb may in some sort be moved, and ascend, yet that motion and ascension is very little, neither is it any ways possible, That the Womb should ascend unto the Stomach, so far is it from being able to transcend the same so far as to reach unto the Midriff. A very strong Reason hereof is brought from anatomy, seeing the Womb is so fastened in its proper place by four very strong Ligaments, that cannot be lifted up so high. Whereunto the Defenders of this Opinion do make answer, That in the falling out of the Womb, those Ligaments are so relaxed that it is wont to come without the Water-gate, and therefore it may ascend as far up as it can go down, when those Ligaments are relaxed or slackened. To this we reply, That the falling out of the Womb comes to pass by little and little, through length of time, by the moistening and softening of the Ligaments, caused by a defluxion of Flegm thereupon; but that which they call the Ascent or rising of the Womb or Mother, happens in a moment, and is as soon restored; and it is requisite that the Ligaments should have been first relaxed, and consequently that all Women should be troubled with the falling out of their Wombs who are subject to this Ascent or rising we speak of, because the occasion of this Ascent being ceased, the womb would of its own accord, and by its own proper weight fall downwards, and lie continually without the Body.

It is hard to make Answer to the Experience of *Fernelius*, *Rudinus*, and others; of which they testify themselves eye-witnesses, who profess they have with their own proper hands perceived the Womb to ascend like a Globe or Bowl to the Navil and higher, being afterwards by them thrust down into its own proper place. *Sennertus* makes answer to this, that the round Body which was by them so felt, was not the Womb, but the Stones, with that blind Vessel, which from *Fallopian*; the finder or first Observer thereof is called *Fallopian* his Trumpet, because he likened the same to the broad end of a Trumpet. For the Stones appertaining to the Womb being pendulous (that is, Hang dangling moveable as on strings) and the Body of the Trumpet aforesaid being hollow as a pipe, lax and apt to move this way, and that way; when they are filled with corrupt Seed, with vitious Humors, and with windy Vapors, and swell and strout again, they may move this way and that way in the lower Region of the Belly, and ascend as high as the Navil. And that such a round swelling may happen in the Stones and Trumpet, as is sometimes felt in Hysterical Women, The Observations of *Riolanus* may teach (propounded in his Book called *Anthropographia*,) where he relates that in Hysterical Virgins such as have had the Womb-sickness, He had found their Stones greater than his Fist, strouting with Wheyish seed; also the Trumpet of the Womb Amplified or enlarged and very much widened. And *Vesalius* observed some such thing in a certain noble young Damself troubled with suffocation or strangling of the Womb, in whom one Stone was swelled to the greatness of a large hand ball, being filled with a saffron-color'd Humor, very stinking, and sendeth forth a filthy and poysonfous kind of Vapor: Which Humor died the adjacent parts yellow, just as we see the Gut Colon where it is carried under the Liver, is by the Bladder of Gall rendered of a clay-like yellowish Colour.

Yet is not *Sennertus* very far from the judgement of the Authors aforesaid; for granting as he saies, that the Stones and Trumpet of the Womb, being filled with corrupt Sperm, vitious Humors, and vaporous winds, do strout again, move to and fro in the lower Region of the Belly, and can ascend as high as the Navil; seeing those parts are contiguous with the Womb, they cannot be moved in the Region of the lower Belly, nor ascend unto the Navil unless the Womb be moved with them

them: so that this motion may be ascribed to the whole Womb very well, as it consists of its own perfect parts, together with such parts as are knit thereunto. Again, if the Stones and Trumpet being filled with vitious Seed, Humors or vapors, may be diversly moved to and fro, Why may not the Womb being filled with like Humors and vapors, be moved with the same motion? The reason indeed of *Sennertus*, which he borrowed from *Galen*, does convince, that the Womb tied with four Ligaments, cannot ascend so high as the Midriff, no not as high as the Stomach; but it must be denied that it may be carried as high as the Navil, where the Authors aforesaid perceived that Globe, both because those Ligaments may be somewhat stretched by matter working in them like yeast; and likewise because the Womb while it is blown up, fills a greater space, and may be perceived towards the Navil; so that whether the whole womb, or the parts fastened thereunto, viz. The Stones and the Trumpet be moved upwards, we may still call it the Rising of the Womb or Mother, and cleave to the Doctrine of *Hypocrates*.

Head-ach from the Womb comes divers ways; for sometime it possesses the whole Head, other-whiles the forepart, and then again the hinder part thereof, and sometimes it is felt about the Eyes, in such manner as if the Patients Eyes would leap out of her Head.

Now these parts are caused by the aforesaid sharp and Malignant Vapors mounting into the Head, and twitching as it were, or grating upon these Membranous parts: Also evil Humors brought from the Womb to the Head, may cause the said pains. For vitious Blood, especially the more thin and Wheyish parts thereof, ascend from the Womb into the head, and being shed into the Membranous parts, breeds those pains. Which pains are sometimes Pricking, Smarting, and sore as an Ulcer, by reason of the sharpness of the Vapors, or humors ascending: Sometimes they are stretching, as it were, and swelling, because of the plenty and multiplicity which descend and stretch: Sometimes they are pulsatory pains beating like the Pulse, when the Vapors or humors are carried thither in the Arteries, or when the Arteries of some peculiar part of the Head are filled with over-hot Blood.

The Falling-sickness springs from the Womb, being caused by the aforesaid sharp and Malignant Vapors, which being possessed with a very great Acrimony and malignity, do vehemently and sharply smite the Nervous parts, whereby they come to be contracted; and whilest they endeavour to expel what offends them, they draw themselves together, and express these convulsive motions.

Palpitation of the Heart, is often caused by the said Vapors, being carried from the womb to the Heart, and provoking the expulsive faculty of the Heart.

Also a Pulsation is caused in the Arteries of the Back, and about the short Ribs, by reason of an over hot Blood, carried from the Womb into those Arteries, and distending them, where their Pulsation becomes greater, which smiting the adjacent parts, causes a feeling of the said Pulsation in them: Yet, sometimes such Pulsations are caused in Hypochondriacal Melancholy, which when we come to the Signs of this Disease, we shall distinguish.

Divers disorders are likewise raised from the womb, in the Stomach, Liver, and Spleen; from the Stomach disorders arise, as appetite lost, or more than is fit, or desirous of absurd things; or Hiccoughs, Vomitings, Belchings, and Heart-burning: all which Symptoms do spring from the aforesaid vapors, sent into the Stomach by the Hypogastrick, and Cæliack Arteries, or other blind passages; and those Vapors do stir up this variety of Symptoms, according to the diversity of their Nature, and the different degrees of their putrefaction and malignity. For by their heat they cause want of appetite, and thirst; but if they be cold, they hurt digestion. And the coveting of absurd things (as Chalk, Oatmeal Small-Coals, Linsey-wolsey cloth, &c.) is caused by the malignant quality of the humors and vapors, as we have shewed in our discourse touching that Symptom: and according to the different kind of Malignity, it comes to pass that the Patients appetite inclines her to long for this, or that odd thing; as some for Coals, others for Clay or Morter, Salt, Cinnamon, Nutmegs, &c. And from a certain kind of Malignity springs likewise the loathing of some certain meats; and which is more wonderful, in some hath been observed an universal loathing of all kind of Drink: as *Ludovicus Mercatus* relates concerning a noble Gentlewoman, which would not away with any Drink; and of another, who though she desired Drink, yet did she Vomit it all up again, being likewise vexed with other grievous Symptoms; Where we may conjecture, that the evil Humors in that Gentlewoman, had attained such a kind of Malignity, as that is which causes Water-Fear in such as have been bitten with a Mad Dog. It is notwithstanding undeniable, that the diversity of the parts into which these Humors and Malignant Vapors are carried, conduce not a little to the variety of the Symptoms. For, if they are carried unto the mouth of the Stomach, they stir up Belchings, and Vomitings; if they stick to the Coats of the Stomach, they induce perpetual inclinations to Vomit; if they are endued with any singular Acrimony, they cause Hiccoughs, or pains of the Stomach; which pains may also arise from the plenty of Humors, weighing heavy upon, and stretching the parts containing.

The Liver is easily offended by menstrual Blood retained, and by the Veins flowing back therein; hence springs the Green-sickness, by reason of bad Blood flowing from the Womb into the Li-

ver, and from the Liver shed abroad into the whole Body. Hence come Swellings, Feavers, and other Diseases very many, in the whole Body, and several parts thereof: forasmuch as all of them are nourished by the Liver.

But if the vitious Blood aforesaid do flow back from the Womb unto the Spleen, Swellings, Stop-pings, and Melancholy, and Hypochondriacal Diseases are wont to be raised.

And, to conclude, Women feel divers kinds of pains in their Loins, Thighs and other parts, which arise from filthy Humors, and Vapors conveyed from the Womb into the said parts: All which Symptoms, taking rise from the womb, shall be distinguished from others which arise from other parts, and are like them, but produced from different causes, in our following Description of the Signs of this Disease.

In the first place therefore, womb sickness is known for the most part by what hath already been said of it. For the fore-recited Symptoms do appear therein, not all in every one, but some in one Patient, some in another, according to the differing condition of the Causes. Now these Symptoms are, Breathing depraved so, as sometimes the Patient seems to be choaked; otherwhiles her breathing is lessened or wholly taken away, without any trouble of Sense or Suffocation; Refrigeration or cooling of the whole Body, and stopping or Interception of the Pulse; sometimes also a taking away of Sense and motion; sometimes Raving, Convulsions, Swoonings, Vomitings, and Hiccoughs are joyned together.

S I G N S. But for a more clear Discovery of this Disease, those Signs are first to be propounded, which shew the Disease approaching, such as have a noyse in their lower Belly (first from the Navil downwards) with belching or inclination to Vomit; Wearinesses, Yawnings, and stretchings proceeding from a flatulent matter, which begins to mount from the Womb into divers parts of the Body; a sad Look, pale Face caused by the drawing back of the Natural heat from these parts, to its Fountains.

When the Disease gathers strength, a sense of strangling begins to trouble the Patient, as if they had swallowed some great morsel which stuck in their Throat. Afterward their breathing stops, and their Suffocation is increased. And in conclusion all their Vital and Animal actions, are depraved, diminished, or abolished. Hence spring Ravings, Convulsions, and other grievous Symptoms. In some the Womb is sensibly tossed and tumbled, and gathered round like a Foot-ball; and felt after that manner in divers parts of the lower part of the Body. And when the Hysterical, or Womb-Fit begins to go over, a certain moisture flows out of the Water-gate, their Guts rumble, they lift up their Eyes, redness springs up in their Cheeks, Sense and motion is restored, their Body grows warm, they fetch deep Sighs, and so the sick Party by little and little, is freed from her Fit.

By the Signs propounded, Womb sickness may easily be distinguished from such infirmities as are of kin, or otherwise like the same, *viz.* the Syncope (Swooning-sickness) Apoplexy (blasting, Planet-striking) and the Falling-sickness: howbeit the difference between the Womb-sickness, and those Diseases aforesaid, is peculiarly to be noted.

And in the first place, by three general Signs we may conjecture that these Symptoms which are common to Womb-sickness, and the aforesaid Maladies, do proceed rather from the womb, than from any primary misaffection of the Heart or Brain. The first whereof is, that if the sick Patient be subject to Womb-sickness, and hath been often annoyed with the aforesaid Symptoms, when they come fresh, we may conclude the Disease to be no other than Womb-sickness. The Second is, That when women begin to feel those Symptoms, they complain that their womb is out of order. A third is, That in womb-sickness, women do feel great ease when stinking things are put to their Noses, and sweet smelling things are put in by the Water-gate, which in those other infirmities falls not out.

And the Hysterical, or womb-sickness is more peculiarly distinguished from that which we call Syncope, or the Swooning-Fits, because in the Syncope, the breathing and pulse do wholly cease; but in the womb-sickness, it remains in a small measure, till they come into the very height of the Fit, wherein is most danger. Secondly, The Swooning Fits come more quickly, and seize upon the Patient as it were on a sudden. But in the womb-fits, there precede evident tokens of the approaching Fit. Thirdly, the Patients Face is paler in the Swooning-Fits, than in the Womb-fits; yea verily, some Women have a ruddy countenance in their Fits of the Mother, and then the Disease is sufficiently known by that Sign alone. Fourthly, In the Swooning-Fits, we find commonly cold, and Diaphoretick Sweats, which in the womb-fits appear not. Fifthly, the Swooning-Fits are shorter, and the Patient is soon either well or dead; but the strangling Fits of the Mother last longer, continuing a whole day, or divers days together sometimes. But it is to be remembered, that the Swooning-sickness, and the Womb fits are sometimes joyned together, when the Heart is more grievously afflicted than ordinary, or when the Patients strength hath been much weakened by protraction of the Disease; and then the Symptoms of both Diseases may be mixed one with another.

The womb Fit is distinguished from the Apoplexy; First because that in the Wombs-Choaking

ing Fits, the Joynts are not so loosned, neither is the Sense of feeling wholly gone, as in the Apoplexy; but if they be pricked, or have their hairs pull'd off, they give a sufficient Sign with their hands that they feel the pain. Secondly, In persons Apoplectical, Planet-struck (as the simpler sort do phrase it) there is a perpetual snorting of the Patient; but in the Womb-stranglings, not. Thirdly, Womb-strangled Patients when their Fit is over, remember what was done and said, during their extremity; but in the Apoplexy it is not so.

It is distinguished from the Falling-sickness; First, Because convulsive motions are not always joyned with Hysterical Suffocations; and those that do accompany the Womb-Fits are not so Universal as in the Falling-sickness, but molest only one or two members. Secondly The pulse is greater in the Fits of the Falling-sickness, than it uses to be when the Patient is well; but in the Mother-Fits it is quite contrary. Thirdly, In the Falling-sickness, the Patient comes at the mouth, but in the Mother-Fits there is no such foming. Fourthly, In the Falling-sickness, the Patient remembers not what was done to her during the Fit, but in the Mother-sickness she remembers all, as we shewed before. Fifthly Those that have Fits of the Mother, do in the end of a Fit come to themselves like persons awaked from sleep, with a noise in the lower part of the Belly, the womb as it were becoming quiet, and returning to its natural place, and sometime much humor flows from the womb, which doth not befall such as have the Falling-sickness.

We must also enquire how such as are in the Fits of the Mother, may be distinguished from those that are quite dead; seeing many Histories relate that some Women in that case have been accounted dead, appointed to burial; yea, and some buried. The ways which Authors prescribe to make this tryal, are divers: For either they lay teazed wool, or light Feathers upon the Patients mouth, and if they stir not, she is given over for dead; or they apply a bright Looking-glass to her mouth, which will be dulled with her breath, if she be yet alive; or they set a Cup full of Water upon her breast, and if the water stir not, they account the party dead. These Signs do for the most part hold good, but they are not perpetual, neither do they put the matter past dispute; seeing as was said before, some Women in these Fits do live only by Transpiration, as those live-wights which live in holes all the Winter, and fetch no breath at all by their mouths. Which though it very seldom falls out, yet it is a very good Caution, not to suffer women which die of this Disease, to be buried till the third day after their death, or at least till they begin to stink.

The Signs of the Causes are likewise to be declared; which Causes we have shewed to be three, viz. Seed retained and corrupted; Menstrual Blood in like manner retained and corrupted; and evil Humors contained in the vessels, or the Cavity of the womb.

If this Disease arise from Seed retained, or corrupted, there have preceded all those Causes, which might encrease, gather together and corrupt the seed in the Vessels; as flourishing age, ripe for generation, or formerly accustomed to the actions thereof, which of late it hath left off; Sanguine complexion, an idle life and given to pleasures; a rich and plentiful table, with the use of such meats as are easily corrupted. In such persons if the Womb-Fits happen, they having their Courses well, we may guess they come from seed retained.

If these Womb-Fits depend upon the menstrual Blood retained and corrupted, as their cause; and the Patients Courses are either wholly stopt, or flow very little, and to no purpose, and she herself is not to seek for carnal Embracements, but well provided; And some Symptoms do attend this suppression, as Melancholy, Wasplishness, Sluggishness, Drowsiness, Head-ach, swelling of the Dugs, heaviness of the Loins and Thighs.

That this disease comes from evil Humors is known, by the Patients having her Courses well, being exercised sufficiently with actions of Generation, by her being steep into years, or being very full of evil Humors, or being troubled with some other Disease in her Womb.

We must also set down the Signs of those other Symptoms which we formerly described, as springing from the Womb.

Head-ach coming from the womb is known, because the Patient hath not her Courses right, the pain does chiefly trouble her, or is most encreased at or near the time of her Courses flowing, and her womb is out of order. Also we may distinguish whether an Humor, or a Vapor cause this pain; for if the pain be not great, heavy, and pressing, and come by fits, it comes certainly from a Vapor: but if the pain be continual, joyned with heaviness, it shews an Humor contained in the part; which if it be Chollerick, the pain is biting, pricking, and acute or sharp; if it be Flegmatick, it causes sleepiness; If Melancholy, Sadness.

Panting of the Heart, and beating of the Arteries about the short Ribs and Back; Diseases of the Stomach, Liver and Spleen: and divers pains may be conceived to arise from the womb, if the other Signs and Symptoms of the womb affected, before recited, be likewise present. As also, if by putting sweet smelling things to the Water-gate, and stinking things to the Nose, the Patient do find some kind of ease.

PROGNOSTICK. What concerns the Prognostick, or Predictions of this Disease: It is a malady

malady which seldom kill the Patients, but use to stick a long time by them. But sometimes they are in danger of death by reason of swooning fits that happen, or by some extraordinary Convulsion. Likewise if the fits are frequent and hard to be removed, it is to be feared lest Respiration being so often hurt, the Native heat should be suffocated, and the Patient come to die.

That Womb-passion is worst, in which more parts are drawn into consent; and that is bad which springs from corrupted Seed, or from a long suppression of the monthly Courses.

In Elderly persons this Disease is hardly curable, because of that plenty of Corruption where-with they are wont to abound. In younger Women, it commonly ceases when they begin to bring forth Children.

In Women with Child, and that lie in Child-bed, it is a dangerous Disease; in the former, for fear of miscarriage; in the latter because of their weakness after Child-bearing.

For a Woman troubled with these Womb-fits, to sneeze is good, for it signifies strength of Brain; and by the motion of sneezing, the malignant Vapors which besiege the Brain, are discussed; and likewise the vitious Humors contained in the Womb evacuated.

C U R E. A two-fold Cure belongs to this Infirmary: one in the fit, another out of the fit. In the fit, those vapors which cause it are to be discussed and drawn back from the part affected; the Humors contained in the Womb which send up those Vapors, must be voided; and the Womb when it is removed out of its proper place (which often happens according to *Hypocrates*) must be restored to the same again.

First therefore, The sick party must be laid upon a bed in such a posture, that her Neck and Shoulders lie high and sloping, but her Thighs and Privy parts lie low and shooting downwards, for so the Womb is more easily reduced.

Then must her lower parts be tied very hard, so as to cause pain; likewise they must be well rubbed and chafed; also Cupping-glasses are to be set upon her Hips; and a very large Cupping-glass set upon her Share is very profitable. But take heed that you do not apply a Cupping-glass upon the Patients Navil, which many ignorantly are wont to do, for by that means the Womb is drawn upwards again. When Convulsions happen, or swooning fits, hard rubbings with coarse cloathes are good upon the Soles of the Feet, also with Vinegar and Salt; it is good likewise to pluck off some Hairs from the Head and Share, to cramp the fingers of the Patient, whoop aloud in her ears, and such like.

It is also good to lay unto the soles of her Feet this Epispastick, or drawing Cataplasme or Pultis.

Take Leaves of Artemisia, Mugwort, feaverfew, Rue, of each one handful: Sage, half a handful: Pidgeons dung powdered three ounces: Black Soap an ounce and an half: Amber, Frankincense Mastich powdered, of each a dram and an half: Juycce of Rue and Vinegar, allayed with Water, as much as sufficeth to make all into a Cataplasme.

At the same time, stinking and strong smelling things are to be put unto her Nose; as Partridge feathers burnt, old Leather burnt, and Brimstone fired; Jeat or Agate Oyl, a Pomander of *Assafoetida*, *Castorium*, *Galbanum*, Rue moistened with Syrup of *Artemisia*, or with Vinegar; Garlands of Rue, Tansey, or Wormwood. But if the Woman be Epileptick, or subject to the Falling sickness, we must abstain from the stronger things before mentioned, because the Brain being therewith offended, is put into a Commotion, by which means the Humors are troubled suddenly in the Ventricks thereof, and the Symptoms are made more grievous.

The smoak of Tobacco blown into the Mouth and Nostrils of the Patient, does quickly free her from the fit.

Contrarywise, sweet smelling things must be put unto the Womb, as some grains of Musk or Civet wrapped in Cotton-wool.

The following Powder may be blown up her Nostrils:

Take white Pepper, Mustard-seed, Pellitory, Castorium, of each one scruple; make it into a very fine Powder:

If the Patient be very much oppressed with her fit, let her be provoked to sneeze, according to that Aphorism of *Hypocrates*, in his 5. Section, 35. *To a Woman troubled with Womb-fits, or hard Labor, if she happen to neeze, is good.* Neezing is many times provoked by the aforesaid Powder; and if that alone will not do it, a little white Hellebore, or Euphorbium may be added.

Also Oyl of Amber or Agates, may be anointed upon her Nostrils.

But laxitive and wind-expelling Clysters do exceed all other Medicaments, in discussing such filthy Vapors as cause the fit: which may be made after this manner:

Take Mercury Leaves, Pellitory of the wall, Mugwort, Penroyal, Rue, Calaminth, of each one handful: Caraway seeds, Cummin seeds; and Bayberries, of each two drams: Boyl all to a pint and an half. In the straining dissolve Hiera Picra, and Benedicta Laxativa, of each six drams: Oyl of Rue three ounces: Camphire half a scruple. Mix all into a Clyster.

If the first Clyster be not sufficient, another must be given of the same or such like Decoction, dissolving therein, Diaphænicon ten drams: Turpentine dissolved with the white of an Egg one ounce: the aforesaid Oyl, and half a scruple of Camphire dissolved in Oyl of Water lillies.

And in a word, The Disease continuing, a third Clyster must be given meerly Hysterical and discussing, but not purging, which will be very effectual, compounded after this manner:

Take Oyl of Rue four ounces: Aqua vita one ounce: Canary Sack three quarters of a pint Galbannum two drams: Mix all, and make a Clyster, and administer the same after a Laxative Clyster.

A Clyster of Vinegar tempered with Water, does presently assuage the Mother-fit, by compressing and coagulating the vapors, which cause the same.

The same does a draught of Vinegar allaid with water, being taken in at the mouth.

Authors do likewise counsel that the Patients belly above the Navil be strongly girt with a swathband, that the Womb may be thereby reduced, and the vapors hindered from ascending.

Concerning letting blood, it is a great question, whether it be convenient in the fit, or no? For seeing there is at that time a great weakness in the Patient, and sometimes despair of life, and the body is cooled all over by malignant vapors which infect the Brain and Heart, which can no ways be expelled by blood-letting; no question the use thereof is very dangerous during the fits. And of this Opinion are *Varandæus* and *Sennertus*. But *Mercatus* and *Rodericus a Castro*, do determine contrarily, That a vein ought to be opened in the Patients Ankle or Instep, when the Disease springs from an abundance of Menstrual blood retained; and that the Patients strength oppressed with the burden, the passages obstructed with too much blood; and the danger of suffocation hence arising can be remedied by no other means but bleeding; seeing in this case, neither stinking smells nor sweet smells, nor Cupping Glasses, can bring the Patient out of her fit. *Philippus Hoechstetterons* in the second part of his Observations, makes it appear by certain Histories, that bleeding in the Foot hath done much good; Inasmuch as a certain Nun, which had been speechless, and in Convulsion fits for two days together, two hours after she had bled, began to speak, and to eat and drink. I am of Opinion, a Vein may be opened, if the Pulse be strong, and there be evident tokens that blood doth superabound: But if the Pulse be weak, we must forbear, and stay till the fit is over for a more convenient season, in which blood may be safely taken away.

Plaisters are profitably applied under the Navil, of the Mass of *Emplastrum Coroneum*, which mollifies and discuteth, and so is better than the vulgar womb-plaister, which doth somewhat bind, and therefore may retain the vapors and malignant humors. Plaisters are likewise made of Galbanum and Assafoetida, or of Caranna, and Tacamahacca, either alone, or with some Spices mingled with them.

As for Example:

Take Gum Caranna half an ounce; Powder of Nutmegs, and Cloves, of each half a dram: Oyl of Amber four drops: Turpentine two drams. Make all into a Plaister: Such Plaisters are to be made in fashion of a Shield or Scutcheon, and in the pointed part of the Plaister, which must be laid towards the Water-gate, some grains of Musk or Civit are to be put, that they may send forth a sweet smell, and thereby allure the Womb back again. Three grains of musk may be put in a little Cotton moistened with Oyl, and thrust into the hole of the Navil: then lay on a small Plaister of dissolved Galbanum. This some Women use for a Secret.

Or four grains of Camphire may be dissolved in Oyl of sweet Almonds, and put into the Navil, and a Diapalma Plaister laid over it.

If the Disease seem to be fostered by plenty of wine and vapors, Fomentations and Baths will be good; of the Decoction of Rue, Mugwort, Thyme, and Calamint, Fennel seed, Annis seed, Cummin seed, Bay berries, Chammomel flowers, Dill flowers, &c.

Also little bags may be prepared with Cummin seed, Annis seed, Carrot seed, Salt, Rue, Bran, in them, and applied very hot, and often renewed. Or,

Take Oyl of Rue four ounces: Spirit of Turpentine half an ounce: Mingle them, and dip therein a piece of Bread hot out of the Oven, and lay it upon the Navil.

Also it will be good to anoint the lower part of the Belly, and the Region of the Womb, Share and Loyns; because such anointings do dilate the Passages, attenuate the vapors, and discuss them. They may be made of Nard Oyl, Spike Oyl, Oyl of Dill, Sefamine, Saffron, Lillies, and Sweet Almonds.

Authors do very much commend a fume of waters which grow upon Horses Legs; which being dried in an Oven, and beaten to Powder, they are burnt under the Noses of women in these fits as a present remedy, whereby women are wont to be in an instant delivered of their fits, to the admiration of the by-standers.

If the Disease spring from retention of Seed, nothing is better than carnal Conjunction, as soon as the Patient is out of her fit, if she be married.

Instead of carnal Conjunction, where that cannot be had: many advise that the Patient be rubbed and

and tickled by a Midwife in the Neck of her Womb, into which the Midwife must put her Fingers anointed with Oyl of Spices, that so the offensive Sperm may be voided. But seeing that cannot be done without wickedness, (understood by a silly superstitious Papist, that counts it a meritorious good work to burn Mother and Child in her Womb alive, as at Jersey, and a wickedness to free a sick Body of a little offensive Humor) a Christian Physitian must never prescribe the same.

To Discuss those malignant Vapors which cause the Womb-fit, many Medicines are wont to be given down the Throat, among which is a dram of old Venice Treacle, with Water of Mugwort, Penny-Royal, and Balm; Troches of Myrrh, to the quantity of two scruples; or Oyl of Amber to five or six drops, with the said Liquors.

Pills are frequently used; the best are made after this manner.

Take Castorium, Myrrh, Assa-fetida, of each one scruple; Facula Brioniae half a scruple: seeds of Rue and Saffron, of each seven grains: with Syrup of Mugwort make twelve Pills. Let her take three or four; if she cannot swallow them, let them be dissolved in Water of Mugwort.

These following Pills are good in a violent fit, which they are wont to remedy without fail.

Take Assa-fetida one scruple: Castorium six grains: Laudanum three grains: make all into three or four Pills. Let her take them presently.

Pilule Fetida majores, although they be purging, yet are they given to good purpose in the Fit, to half a dram. For they gently evacuate, and are not wont to work till the fit be over; so that there is no danger in their working.

Also many Waters are wont to be given in the fit, viz. Aqua vite, Cinnamon water, or Treacle water.

Or a specificall water may be made after this manner.

Take Zedory roots, Carrot seeds, Lovage roots, of each two ounces: red Myrrh, Castorium of each half an ounce: Piony roots four ounces: Mistletoe of the Oak gathered at the wain of the Moon, three ounces: pour upon all these being prepared, four pints and a half of Fever-fue water, Spirit of Wine half a pint; let them digest three days, and afterward distill them. The dose is a spoonful by it self or with some convenient liquor.

A more easie water to make, more pleasant to taste, and no less effectual, is this following.

Take of the juices of Balm, and Borrage clarified, of each two pints: the best Saffron one dram. Let them be infused and distilled in Balneo. The Dose is a spoonful with Broth. This following potion is vulgarly used.

Take of Cinnamon Water half an ounce: Orange-flower water four ounces: Castorium four grains. Make all into a potion, or draught.

Oyl of Amber given to three or four drops, in Orange-flower, or some other specificall, doth quickly rid away the Womb-fit.

The following potion is wont to do very much good, as it is to be seen in our Observations.

Take Water of Mugwort, Roses and Orange-flowers, of each one ounce: Cinnamon Water three drams: Confection of Hyacinth-stone one dram: Diamargaritum frigidum (that is the cooler perled powder) half a scruple: Saffron four grains. Make them all into a potion.

Orange-flower-water doth good alone, given three or four ounces; but mingled with Musk, and Dragons-blood, it doth wonders: witness Solenander in these words. A certain woman was vexed with most cruel Symptoms, Head-ach, Belchings, contraction of the Body, pain in the Groin, grinding of her Teeth; sometimes falling to the ground speechless, with her mouth shut, so as she could not open it; and all this through disorder of the Womb. Many remedies being used in vain, a certain old Woman comes, and gives her thirteen grains of Musk, and as many of common Dragons blood, in four ounces of Orange-flower Water; she was cured, and never felt the like griefs any more. I have in the like case given the same Medicine divers times, and always with good effect.

An Elks Claw is also very good in these fits, according to the experiment of Apollonius Menabeus in his Treatise of the Elk, Chap. 10 in these words. I confess I have both heard from others, and found by my own experience, that an Elks Claw is a present remedy for the Suffocation of the Mother. For being called to help a Woman in those Fits, I gave her the raspins of the Elks Claw with Zedory; with which, and with other remedies administred according to the rule of Art, I did the Cure with Honor. And when I understood, that she was wont to be troubled with those Fits oftentimes, I enjoined her to wear a piece of Elks claw continually about her Neck. Which when she diligently observed, for the space of three months that I was in the place, she was ever free from those Fits, and gave me oftentimes thanks for my advice.

Camphire fired, and cast into the water, and there abiding till it be quenched, is an excellent Remedy, given to the quantity of a dram.

The Cats-tails of the Walnut tree in the Epistles collected by Laurence Scholezius in the letter written from Thomas Mousot to Peter Monavius, are extolled with this Commendation. In Strangulation of the Womb, the Cats-tails of the Walnu tree are a singular Medicine being dried and powdered.

You may give two scruples with two drops of Oyl of Amber. I never knew any thing more excellent in that Disease.

Two most excellent Remedies may be made in the form of Powders, which I have oftentimes tried.

The one is of the After-birth of a Woman that lies in of her first Child, dried in the Chimney, and beaten to Powder. The Dose is a dram in some convenient Liquor. It presently takes away the fit.

The other is made of two parts of Brimstone, and one of Nutmeg. Powder them and give a dram.

Powder of Jeat given to half a dram, or one dram, will do much.

The Powder of Elder-berries of *Quercetanus* taken a dram in Wine, cures the Epilepsie, or Falling-sickness, by consent of the Womb, and being taken the second time, makes that the fits return not.

Where that Powder cannot be had, the same quantity of Soot from the Chimney, may be given in an Egg soft boiled.

And because the Womb is oftentimes filled with evil and Excrementitious humors, from whence ugly vapors are raised up; we must be careful to purge the same, which may be most conveniently done by this following Pessary.

Take Diaphœnicon one dram; powder of Hiera Picra half a dram; Turpentine three drams: mix all, and with two make a Pessary.

For her ordinary drink, let the Patient drink a thin weak Decoction of Cinnamon, Caraway or Annis-seeds.

Touching Wine. It is a question whether it may be given a Woman in these fits. *Hypocrates* in his First Book of the Nature of Women seems to commend the same: and there is much reason to back his Opinion. For an extream refrigeration of the body, and Languishment of Natural strength, cannot be better holpen, than by giving the Patient a Cup of rich Canary. But *Avicenna* wholly forbids it. And indeed, Because this Disease depends for the most part upon Seed retained, or of Blood and foul Vapors carred up from the womb; wine by its thinness and exceeding piercing faculty, doth more exagitate and vex the Morbifical matter; whence we see by common Experience, that women troubled with this Disease, are worse if wine be given in their Fits. To compose this Contention, we say, That wine ordinarily is not to be given during the Fit, but upon extraordinary occasion: Namely, when the Patient's strength is extreamly decay'd, or she hath Swooning Fits joyned with the Mother-Fits, or seems to be at the last gasp: all other Remedies tryed in vain, we make use of wine as our last Refuge, and for present help.

In this Cure we must be very careful, if the Patient be with Child, and prudent in our administration of Medicaments; neither must we use those more vehement and stinking ones, lest we cause miscarriage; and we must perform the Cure rather by outward than inward Medicaments.

In the Course of the Cure, care must be taken of the Heart and Brain, and if they seem much oppressed, they must be relieved by such Medicines as are proper unto them. To the Heart, wine and Orange-flower-water, or Imperial water, or Treacle of *Andromachus* dissolved in wine, must be applied by wetting things therein, and laying them upon the Region thereof; or hot living Creatures are to be applied thereunto. For to strengthen the Head, those Remedies must be used which are set down in our Chapter of sleepy Diseases.

When the fit is over, Care must be taken to prevent the return thereof, either wholly, or at least for a long time: which is done by a removal of the Causes, and by strengthening the womb.

In the first place therefore at a convenient season, but especially in the Spring and Fall, the Patient must be yearly evacuated, beginning with a Purging potion, or some other Medicament suitable to the Nature of the Patient; always adding Hyfterical things.

And then, If Blood seem superfluous, it must be drawn first out of the Arm and then out of the Foot; choosing as near as possibly the middle space between the Patients monthly Purgations.

Afterwards, That the redundancy of evil humors may be sufficiently prepared and purged out, an Apozeme must be compounded, altering, opening and purging, to be given at four or five times.

If Nature seem to incline to the opening of the Hemorrhoids, they must be opened by Application of Leeches. And *Mercatus* doth witness in the 13 and 14 Counsel, that they have much profited in these Fits.

After general Purgations to discuss the remainders of the Morbifical matter, a sweating Decoction will be good to give divers days together, made of Saxafras, Guajacum, with seeds of Fennel, Rue and *Agnus Castus*.

To the same intent Sulphurous and Bituminous Baths will be very good, such as we have at *Balnearia*, by whose use many are holpen, as daily Experience shews.

In this Disease being of long continuance, besides the Remedies aforesaid, it will be good to purge the Patient frequently by usual Pills, Syrups or Potions. Which may be made after this manner :

Take Troches of Agarick one dram and an half; Hiera of Coloquintida one dram; Carrot-seed, Agnus Castus seed, of each one scruple; Myrrh, Castorium, Diagridium, of each half a scruple: Turpentine, as much as shall suffice to make all into a mass. Let her take hereof half a dram, or two scruples twice or thrice in a month.

The following Syrup is mightily extolled by Mercatus, as a wonderful Syrup, and very profitable for all Womb-sick Women, in his 13 Counsel.

Take Juycce of Herb Mercury and the Cream of Carthamus seeds, of each six ounces: Scozonera water seven ounces: Sugar as much as shall suffice to make it into a Syrup. Add hereunto while it boyls, Confection of the Hyacinth stone, Confection of Kermes-Berries, and Powder of the Electuary de Gemmis [that is, made of precious Stones] of each two drams: Let the Dose be two or three ounces.

Take Briony Roots three drams, Senna Leaves half an ounce, Agarick two scruples, Ginger one scruple, Cinnamon one dram: Let them steep all night in Fountain-water. In the straining mix one ounce of Syrup of Damask Roses. Make hereof a potion to be taken twice or thrice in a month.

Pilula foetida majores [that is, strong smelling Pills made of Gums] taken twice in a month to half a dram, are very profitable.

In such as easily vomit, it is good to provoke to cast, once or twice in a month, after this manner:

Take Agarick Cakes [Troches of Agarick] one dram and an half, Oxymel one ounce, Bawm water and Mugwort water, of each three ounces: Mix all into a vomiting Potion.

Chymists give salt of Vitriol in some appropriate water, from half a dram to one dram, and cry it up for a specifick remedy in Womb-fits.

After all particular evacuations are ended (that is, after each evacuation) some strengtheners are to be administered, such as this following Electuary:

Take Conserve of Rosemary flowers, Betony and Bawm, of each one ounce and an half; Species of the musked Electuary, and of Electuary of Calaminth, of each half a dram: With Syrup of Mugwort make all into an Electuary.

Treacle by it self is very proper for this occasion, which for hotter Constitutions may be tempered by the mixture of Conserve of VVater Lillies, Maiden hair, &c.

But the following Powder is far more effectual, which heals old and stubborn VVomb-fits, if it be frequently taken one dram at a time, in wine, in a Bolus or Morfel made up with Syrup of Mugwort.

Take Gentian Roots, white Dictamus, Tormentil, Pellitory, Rhaponticum, Bistort, Aristolochia, or Birthwort the rounder, Chamelion Thistle, Bay-berries, Angelica, Master-wort, Coriander seeds prepared, Annis-seeds, Juniper berries, Mastich, Bole armenick, Terra Sigillata, of each two drams and an half: Oriental Saffron three ounces and an half. Make all into a fine Powder, and keep it in a close Vessel.

Neither must we omit such Medicaments, which are wont to help these fits by a peculiar property thought to be in them; An Example whereof may be this that follows, made in Pills, because of the ungrateful taste of the Simples.

Take Assafœtida half a scruple: Castoreum, Myrrh, Galbanum, Sagapenum, of each one scruple: with Honey of Mercury make a Mass; of which give the Patient half a scruple or a scruple frequently.

Platerus makes Pills of extremely Odoriferous Ingredients, after this manner:

Take of Musk six grains, Benjamin half a dram, Sugar one dram: With Cinnamon Water make them into a Mass for Pills. The Dose is half a scruple.

Those Hysterical Waters before set down to be given in the Fits, may likewise be profitably used out of the Fits, a spoonful or two in a morning, when the Patient is free, by way of prevention.

Mathiolus extremely commends the Briony Root, in these words: Briony doth wonderfully help Women subject to strangulations of the Womb, so as to free them from their choaking fits, and cure them. Truly I knew a Woman daily almost, vexed with these Fits for a year together, who being at last taught by an ordinary Herb-man, to drink Whitewine, wherein an ounce of Briony Root had been boyled, once in a Week, when she was going to bed: when she had used this Medicine for a year together, she was perfectly recovered of that Disease.

The Liver of a Woolf dried, and one dram taken, may prevent the Fits of the Falling sickness proceeding from the Mother, if it be given three or four times after an ordinary Purgation.

The Chymists do commend Vitriolum Martis [that is, Vitriolated Steel, or Chaly beated Vitriol, or Salt Steel] whereof they give a grain or two, with a double quantity of Sugar, many dayes together in Wine or other fitting Liquor.

And

And the truth is, it may be given to twelve, fifteen, and twenty grains, in some convenient Conserve; or it may be made into Pills with Mucilage of Gum Tragacanth.

Cream of Tartar frequently taken, is also very good in the cure of this disease.

These two Medicines do good, not only by opening; but also by cooling; for oftentimes an hot distemper is rooted in the womb of women subject to this disease, arising from blood retained within its veins, and over-heated: as *Galen* says in Hypochondriacal Melancholy, That there is a burning distemper in the parts under the short ribs, by reason of blood retained in them by obstructions, and there overheated. Those things therefore which have power to cool the womb, are very proper in this case, such as are Baths to sit in, Vinegar and Water mingled and drunk down, or injected, and such like. Unto which we may add the History related by *Dr. Harvey* touching the children of a woman long afflicted with Womb fits, not curable by all that could be done; who at length after many years was cured by means of the falling out of her womb, because her womb exposed to the air, was cooled; and so its inflammation and hot distemper was repressed.

Also the use of Steel it self is much commended by some Practitioners, as very convenient for all Infirmities of the womb. Whose Preparations look for in our cure of obstructions of the Liver.

Issues made in the thighs, are likewise very good. For they derive and turn aside evil humors from the womb, by reason of those veins which are common to the womb and thighs.

Neither are Amulets to be neglected, fastned about the Patients neck, and hanging down upon her Navil, as we formerly mentioned touching the Elks Claw, good in this case.

Some commend *Peucedanum*, or Hog-fennel root, hung in a string about the neck. And our women do with good success wear a piece of *Assafoetida* in a thin rag of cloth. I have known some that have worn a Fox's Pizzle and Stones dried, tied about their neck in a string, and resting upon their Navil, and by that means preserved themselves from the Womb-fits.

Some wear a piece of Wolfs flesh dried, or of the Liver of a Wolf, not without profit.

As for external Remedies, after every purge, or at least once in a month, eight or ten days before the Monthly Purgations of Blood, Fomentations or Baths to sit in will be good, that the Humor causing this disease being dissolved, may more easily find its way by the opened passages of the Courses, and flow out with them. They may be made of the Roots of Marshmallows, Briony roots, Orris-Roots, Madder, Valerian, Angelica, Mugwort-leaves, Nep, Feverfew, Bawm, Bayberries, and such like.

To discuss the remainder of the matter causing the disease, and to strengthen the Womb after fomentation, or sitting in a Bath, as aforesaid, the following Plaisters may be laid on under the Navil.

Take Gum Tacamahacca and Carranna, of each two drams; *Alipta Moschata* half an ounce; *Agnus Castus* seeds, one dram and an half; of each of the Sanders half a dram; Turpentine, Landanum, Wax, of each as much as shall suffice to make a plaister.

If this Disease arise from the Seed retained, use those Remedies which we have formerly set down to quench and discuss Seed in our cure of Womb Fury.

Chap. 7. Of Inflammation of the Womb.

INflammation of the Womb, is a Tumor or swelling of that part, springing from blood that is shed into the substance thereof.

And the said Inflammation possesses either the whole womb, or some part thereof; and it is produced either by pure blood, and is called merely *Phlegmone*, an Inflammation; or it comes from blood mingled with Choler, and it is called *Phlegmone Erysipelatodes*, a Cholerick Inflammation of kin to the Rose, or St. *Anthony's* Fire; or it hath its original from blood mingled with flegm, and is called *Phlegmone Oedematodes*, a flegmatick Inflammation: or it comes from blood mingled with Melancholy, and is called *Phlegmone Schirrholes*, which is a Melancholick Inflammation or Swelling.

CAUSES. The Causes which produce or encrease this Disease, may be divers; viz. A Sanguine Constitution over-loaded with Blood, or infected with Choler; a natural looseness of the womb, with wideness of the passages; Air extream hot, inflaming the humors; or very cold, compacting and knitting them together, and so stopping the monthly Courses flowing, or ready to flow; vehement exercise, immoderate carnal Conjunctions, a blow or fall lighting upon the wombs Quarters; Perturbations of mind more violent than ordinary, especially wrath; acrimonious or sharp vehement meats, of a hot Nature, and whatever else is taken in of a fretting vehement operation, as Authors report of Cantharides, That they are very hurtful as well to the womb as the bladder; sharp Pessaries long time used, or purging Medicines, or strong alteratives, such as barren Women are wont to wrap and rend from all quarters; Retention of the Courses encreasing the over-fullness of blood;

blood, or over-great flux of Courſes relaxing the paſſages, and bringing the humors from all the parts of the body to the womb; likewise Cupping-glaſſes faſtened about the privy-parts, may violently draw the blood and humors unto the region of the womb, and there detain them. Labourſome Child birth may cauſe as much; Abortion, a violent handling of the parts of generation by an unſkillful Midwife, and a troubleſome inconvenient bearing of a child in the womb.

SIGNS. The Signs to know the Diſeaſe by, are ſwelling, heat and pain in the region of the womb, with a continual Fever. But becauſe the ſtrait gut (that is, that which is united in the Dung-gate) and the Bladder, do lodg in the ſame quarters with the womb, therefore muſt we diſtinguiſh this Diſeaſe by other ſigns; ſuch are, ſuppreſſion or diminution of the Courſes, and their paleneſs, or yellowiſh citrine colour, with pain in their coming forth; and in the abſence of the Courſes certain ſtinking and rotten ſtuff ſweats through the veſſels of the womb, and bedews the Water-gate. Whereunto if ſearch be made, it will plainly diſcover the Diſeaſe; for the inner mouth of the womb will be found to ſwell, to be drawn inwards, and ſubject to pain if touched; the neck of the womb will appear red and inflamed, the veins diſperſed there through ſtrutting with blood.

If the whole womb be inflamed, all ſymptoms will be more vehement. If the Inflammation be rather in the neck of the womb, the heat and pain is ſpread moſt towards the groins and the water-gate. If the former ſide of the womb do ſuffer, the bladderſ fellow-feeling will be the greater; if the hinder-ſide of the womb be inflamed, the ſtrait gut will be more compaſſionate, and the pain will ſtretch it ſelf towards the loins. If the right or left ſide of the womb be inflamed, the heat and pain will appear moſt about the one groin, and the thigh of the ſame ſide will be heavy, and as it were in a ſort burthened.

The Signs of the Cauſes are theſe: If the inflammation ſpring from pure blood, all the ſymptoms are milder; but if there be choler mingled therewith, the Fever is more burning and all the ſymptoms are more vehement; but if the blood be flegmatick or melancholy, the Fever will be leſs acute; but the diſeaſe more laſting and more ſtubborn. And here we are to conſider ſuch ſigns as may inform us what humour is moſt predominant in the whole body.

If the inflammation turn to an Impoſthume, and gather matter, the pain and Fever are encreaſed, and ſhaking fits come without any certain courſe; yet commonly they take their turn about evening, and all the other ſymptoms are heightned. When ſuppuration is accompliſhed, all the ſymptoms are mitigated, and the ſwelling riſes higher, whereby ſometimes the excrement of the guts or urine is ſtopped. But if the Inflammation be diſcuſſed without ſuppuration, the ſwelling leſſens, and the ſymptoms become gentler.

If it turn to a Schirrhus (that is, an hard ſwelling) the Fever, Pain and other ſymptoms are diminished, the ſwelling abides, becomes harder; likewise the weight and heavineſs remain both in the womb, and the adjacent parts, ſo that the Patient can hardly ſtir her ſelf.

PROGNOSTICK. A good prognostick cannot be made of this Diſeaſe, becauſe it is very dangerous, and for the moſt part deadly. But more or leſs danger is threatned according to the greatneſs of the diſeaſe, its cauſe and ſymptoms; as thus:

If the Inflammation poſſeſs the whole womb, its a deſperate diſeaſe; but if only a part be inflamed, there is ſome hope of help.

If a woman with child have a Cholerick ſwelling in her womb, its deadly, *Hyp. Aphor. 43. Sect. 5.* For the child dyes by reaſon of the greatneſs of the Inflammation, whereupon follows abortion, which coming upon the back of a grievous diſeaſe, kills the Mother. *Galen* in his Comments upon this Aphoriſm, doubts if this be not true of every inflammation of the womb, as well as of the Cholerick, and whether it be poſſible that a child in ſuch a caſe can live.

Inflammation of the womb eaſily degenerates into a Gangrene, becauſe the womb, as it were the bodies Cloſe-ſtool, receives a mighty charge in naſty excrements, by which the inbred heat is eaſily ſuffocated.

Ravings, turning of the womb, Hiccoughs, coldneſs of the hands and feet, Diaphoretick ſweat ſeizing on a woman in this diſeaſe, do portend ſudden death.

If an Inflammation of the womb come to ſuppuration, its hopeful that it may be cured; but a foul Ulcer will follow, which will make the Patient to pine away with a lingering Fever, or to fall into the Dropſie.

If the Inflammation turn into a Schirrhus, the evil becomes laſting, and often brings a Dropſie.

CURE. To cure this infirmity, the courſe of the blood to the womb is to be drawn back, it is to be driven from the womb, it is to be diverted another way: that which is flown in and contained in the part, is to be reſolved. And if the ſwelling tend to ſuppuration, it is to be furthered; and when it is broken, the Matter or Quittor muſt be voided out; which may be done by the following Remedies.

An emollient and cooling Clyſter being premiſed, let blood be drawn from the Baſilick vein of the Arm, on that ſide on which the womb is moſt affected; or from both arms, if the ſwellings be in the

the whole womb; and let the Blood-letting be repeated twice, or three or four times, according to the strength of the Patient, and the greatness of the Inflammation.

After sufficient Revulsion, the Disease being come to its height, when there is no longer suspicion of any present flux into the womb, the lower veins are to be opened, to derive from the part affected. In which sense we understand *Galen* in his Book of Blood-letting, and in his 13 Book of the Method of Healing, where he teacheth, that in the Inflammation of the womb, we must open the veins about the Knees and Ankles. But so long as there remains any Indication of Revulsion, it is better to open the veins of the Arm.

Also to revel or draw back the Humors, Frictions are good, and Ligatures or bindings of the upper parts, and Cupping Glasses set upon the Shoulders Loyns, and Back.

If vitious humors (especially Cholerick) do abound in the Body, which are as it were the Coach of the other humors to hurry them about the body; they are to be evacuated with gentle Medicaments, as Syrup of Roses, and Syrup of Violets solutive, Manna, Rhubarb, Catholicon, or Electuary Lenitive; for stronger Medicaments by stirring the humors over-much, would excite the Flux of humors more abundantly to the part affected.

And vomiting Medicaments, though prescribed by *Avicenna*, seem no way convenient in this case. For if they be mild and gentle, they evacuate nothing to speak of: If they be stronger, they cause a great Agitation in the Body, by which means the humors being in a Commotion, may flow more plentifully unto the part diseased.

In regard of the greatness of the Fever, cooling Medicaments are to be used, as Juleps and Emulsions; whereunto, if very great wakings, pain, and tumblings and tossings do disquiet the Patient, some Narcoticks may be added, which may likewise be given by themselves.

After the first evacuations, let outward Medicines be applied to the lower part of the Belly, between the Navil and the Share, and about the Kidneys; first of all repelling and cooling things; in the form of a Liniment, an Epitheme and Cataplasm.

The Liniment may be made of Oyl of Roses washed in Vinegar, or of Oyntment of Roses *Ceratum Santalum*, or *Galen's* cooling Oyntment, with a little Vinegar added.

The Epitheme may be made of the Waters or Decoction of Plantane, Sorrel Nightshade, the tops of white Poppies and Roses, adding a little Bole-Armenick, Dragons-Blood, and *Terra Sigillata*.

The Cataplasm or Pultis may be made of the crumbs of fine Manchet boyled with Milk, to which a little Oyl of Roses may be added with Juyc of Henbane, Nightshade, and the whites of Eggs; or of Barly meal, Linseed, Fenugreek seed, with Oyl of Roses; whereunto likewise the aforesaid Plants being bruised, may be added.

Injectiōns must be made into the Womb, compounded after this manner:

Take Plantane Leaves, Water-Lilly Leaves, Nightshade and Endive, of each one handful; red Roses two pugils. Boyl all till a third part of the Water be consumed: and add to the strainings Oyl of Myrtles one ounce, Vinegar half an ounce. Make an Injection.

Of the same Herbs bruised with Oyl of Roses and Vinegar, Pessaries may be made, and put into the womb.

Neither must repelling and refrigerating medicaments be long used, lest the Swelling harden and degenerate into a Schirrhus. Wherefore softning and dissolving things are to be mingled with the repelling Simples; with this Proviso, That the longer the Inflammation is from its Infancy, the greater must be the quantity of Digestives: So that to the aforesaid medicaments may be added, Mallows, Marshmallows, Mugwort, Fenugreek, Chamomel, Melilot; their Dose being augmented or diminished, as the case shall require.

In the mean while, if the Patient be costive, she must be helped by gentle Purgatives. Yea, and the truth is frequent Clysters may do a great deal of good to temper the Inflammation, seeing the Womb rests upon the streight Gut, called *Intestinum Rectum*. But let them be little in quantity, that they may be kept the longer, and that they may not compress the womb; of which this may be an Example:

Take Marshmallow Roots, the Leaves of Mallows, Violets, Lettuce, of each one handful; Nightshade half a handful; Violet flowers, red Roses, of each a pugil; sower Pruen ten: boyl them in Barly water. In six ounces of the strained Broth mix three ounces of Oyl of Roses, and make all into a Clyster.

If the Patient be in great pain, to the aforesaid Clysters may be added the Yelks of Eggs, the fat of an Hen, Breast-milk, Mucilage of the seeds of Fenugreek, Linseed or Mallows; yea, and a little quantity of Opium with some Saffron.

In such a case, Injectiōns into the womb may likewise be made of Goats or Sheeps milk, with Opium and Saffron, of each three or four grains, and a little Rose-water.

Or unto Pessaries may be added a little Opium with a little Saffron, the whites of Eggs, and Oyl of Roses. Or Pessaries may be made of *Philonium Romanum*, with Cotton. Or a Fomentation to ease pain, may be prepared on this manner :

Take Marshmallows Branch and Root, Violet Leaves, of each a handful ; Chamomel, Melilot, Roses of each a pugil. Boyl all for a Fomentation.

When the Disease begins to decline, Purgation is to be iterated with gentle Purgatives. And when the Disease tends to a Resolution or Conclusion (which is known by remission of the Symptoms, and because the part is not so oppressed with any Heaviness) discutives must be used in greater quantity than any of the foregoing Medicaments. Or this Cataplasm may be made :

Take Powder of Marshmallow Roots one ounce ; Chamomel and Melilot flowers, of each two drams : Mugwort Leaves powdered, Barly and Bean meal, of each half an ounce : boyl them a little in harsh red Wine : add new Hogs Grease, Oyl of Chamomel and Lillies, of each one ounce. Make a Pultis or Cataplasm.

Fomentations and Baths to sit in, may likewise do good in this case.

If the swelling cannot be discussed, but seem to tend to suppuration, it is to be furthered by the following Cataplasm :

Take Marshmallow Roots powdered, Chamomel flowers, Melilot, Meal of Lin seed, Fenugreek, of each one ounce : fat Figs, boyl all to the consistence of a Pultis. Then add the yolks of four Eggs ; Saffron half a scruple : Oyl of Lillies and fresh Butter, of each one ounce. Make of all a Cataplasm.

When Matter or Quittor is made, which may be known by the abatement of heat and pain, and by a certain inundation perceivable by the touch, the Matter quaking like a quagmire, endeavour must be used to break the Imposthume by moving of the Body by Coughing, by Neezing, by Fastening Cupping-Glasses, by cleansing and attenuating Injections, or by Pessaries that will draw and break. As for Example.

Take Goose Grease half an ounce ; Turpentine two drams ; Rue seeds powdered, Nitre, Orris Roots, of each half a dram. Mix all, and with Wool make a Pessary.

When the Imposthume is broke, we must endeavour to purge out the Quittor or Matter, and to cleanse and consolidate or close up the Ulcer, as shall be shewed in the cure of an Ulcer in the womb, in the Chapter immediately following.

Chap. 8. Of an Ulcer of the Womb.

After a suppurated inflammation of the Womb, follows an Ulcer, which likewise depends upon other causes, namely, so many as may cause an Erosion, fretting or gnawing the substance of the womb.

CAUSES. The causes therefore hereof are, An Imposthume breaking, sharp humors flowing into the Womb, sharp and corrosive Medicines conveyed into the womb, or taken at the Mouth, as was said before touching Cantharides or Spanish Flies.

The Antecedent Causes are all such things which we have formerly shewed, have power to cause an Inflammation, as Child-birth, violent and unbridled Carnal Conjunction, a long flux of sharp humors from the Womb, wounds, falls and bruises, and especially a venomous Gonorrhea, and the Lechers Pox, the infection whereof is soon communicated to the womb, and its Neck.

DIAGNOSTICK. The differences of this Disease are taken from the place, the magnitude, the Figure and Complication, with other Infirmities.

In respect of the place, that is to say, the several parts of the womb ; the Ulcer is sometimes possessed of the Neck of the womb, and its inner Orifice ; sometimes it is in the bottom, though but seldom. Sometimes, and that most frequently, it seizes the inner surface of the womb ; sometimes, but seldom, it assaults the outward surface ; whence it comes to pass, that sometimes the Quittor of these Ulcers come out by the bladder or Guts ; or if it settle in the Cavity of the *Abdomen*, Imposthumes arise about the Patients Groyns, of which *Hypocrates* speaks in his 47 Aphor. Sect. 5.

In respect of Quantity, some are great, others small Ulcers, according as they take more or less space in the womb ; which if they be little and superficial, they differ little from the Scab and Itch ; but if they be great, grievous, and as it were devouring, they are called by *Hypocrates*, *Noma*, that is eating Ulcers.

In regard of their Figure, Ulcers are called Round, Long, Hollow, or Fistulous, that is like a Pipe.

In regard of Complication with other Infirmities, they are called Phlegmonous, Cancerous, Schirrhous, Painful, VVater-bloodish, Poysonous and Infectious.

SIGNS.

The Signs of an Ulcer bred in the womb, are pain and biting in the womb or its Neck, voiding of

of stotty Matter or Quittor out of the womb, which Diagnosis will be more illustrated, if the Causes producing the Ulcer, such as we have mustered up, have preceded.

If the Ulcer possess the Neck of the womb, it is discerned by the sight, by help of the womb-perspective Instrument; also by the Midwives hand, or in the general Embrace, in which the Patient feels a troublesome pain. But if the Ulcer be in the bottom of the womb, the pain is felt about the Share, and the Excrements flow more abundantly.

If the Ulcer pierce to the outward surface, the Patients Urines or Stools appear Matterish, or a Fluctuation is perceived in the Paunch, or a Swelling towards the Groyns, where it threatens to Imposthume.

If the Ulcer be single and benign, the Quittor is little, white, and not stinking. But if it be malignant and eating, the Quittor will be greenish, Lead-coloured and party-coloured, coming away with great pain and stink.

If it shall arise of the Eetchers Pox, Gonorrhœa will usher it in, or attend upon it, and other tokens of the Whore-masters Pox will appear.

PROGNOSTICK. For the Prognosticks of this Infirmary, *Hypocrates* in the first Book of womens Sickneses, says, That no Ulcer in the womb ought to be slighted, because it is in a part of exquisite feeling, which hath a fellow-felling with the principal parts of the Body, and is very much disposed to receive a flood of Excrements from them.

If the Ulcers of the womb prove Cancerous, Phagedenick or wolfish [such as the simple people call the wolf, and tell strange tales about, how it eats flesh, &c.] hollow or fistulous, they are for the most part incurable, and do vex the poor Patient miserably all their life long.

Ulcers in the Neck of the womb are more easily cured, because Medicaments may be applied to them immediately.

In Women that are recovering of this Disease, it is a token of perfect health, if they begin to conceive, and conveniently to receive the mans Sperm, or if they have their monthly Courtes orderly and without pain.

CURE. The Cure of a Womb Ulcer must tend to hinder the flowing in of such humors as either beget or cherish the Ulcer, and to cleanse the Ulcer, and cause it to come to a coalition. To which purpose the following Remedies may be used.

And first of all, If the Patient be over full of blood, or the Ulcer have an Inflammation joyned therewith, a Vein in the Arm must be opened, and repeated so often as there seems danger of a new Fluxion; which is especially to be done when the Patient hath her Courtes, that they may flow the less, because they are wont to supply Matter to the Ulcer, and to cause other humors to flow unto the womb.

Also Purgation is very necessary, that the body may be freed from evil humors; and it ought to be procured by the gentler sort of Purgatives, as Senna, Rhubarb, Tamarinds, Myrobalans, Catholicum, and such like; and Purgation is often to be repeated, that evil humors may be diverted from the womb; and it is in this Case of such moment, that *Forestus* witnesseth in the 48 Observation of his 28 Book, That *John Tiengius*, a Physitian of *Amsterdam*, cured a Gentlewoman of *Amsterdam* of an Ulcer in her womb, to whom he gave every fourth day five ounces of the Decoction of Senna, Epithimum, red Roses and Indian Myrobalans sweetened with Sugar, using to cast cleansing Decoctions as Injections into her womb.

For to be ever in a readiness, This following Magisterial Syrup may be compounded.

Take of the greater Comfrey Roots, and new Polypody of the Oak of each one ounce; Citron peels dried, six drams: Leaves of Plantane, Vinca pervinca, Ladies Mantle, Sorrel, Maiden-hair, of each a handful; Liquoris scraped and split, and Raisins stoned, of each one ounce: Senna cleansed six ounces, Carthamus seeds bruised two ounces, Agarick newly made into Cakes and bound in a Cloth, ten drams: Musk-melon seeds and Annis-seeds, of each three drams; the Cordial Flowers, Rosemary-Flowers and Epithimum, of each one pugil. Make of all a Decoction in Barly water, in part whereof infuse of choyce Rhubarb half an ounce; Cinnamon one dram. In a pint and half of the strained Liquor, dissolve three ounces of the Syrup of Damask Roses, and as much Sugar as shall be requisite to make it in a Syrup perfectly boyled. Of this let her take two or three ounces, twice or thrice in the month with some Decoction of Agrimony and Plantane, or the Infusion of Rhubarb in Endive Water.

If the Patient be easie to vomit, a purge upwards by Vomit is to be preferred before the other, because it draws back the humors from the womb.

In the spaces between purging, a Vulnerary Decoction is long to be used, which may be made after this manner:

Take Leaves of Agrimony, Burnet, Knotgrass, Plantane, of each half a handful; China Roots three drams; Coriander seeds one dram; Currance half a dram, red Sanders one scruple; Boyl all in the Broth of a Chicken. Let the Patient take of the strained Liquor morning and evening. Or

Take

Take Leaves of Mugwort, Plantane Tarrow, of each one handful; Rhaponticum half an ounce; Agnus Castus seed one dram. Boyl all in a sufficient quantity of Whitewine, Sweeten the strained Liqueur with Sugar, and give her two or three ounces in a morning.

If a Fever urge, and great quantity of blood-like Quittor be voided, Whey and milk will be very good; let her take eight ounces or more in a morning, adding a little Honey of Roses, or Sugar.

If her flesh begin to fall away, with tokens of an Heftick Fever, Milk, especially Asses milk, must be given with Sugar of Roses for a whole month.

Sweat-provoking Medicines may likewise do good where there is no Inflammation, nor hot distemper to dry the Ulcer, and to revel the ferous humors towards the habit of the Body.

Turpentine washed in some convenient water for the womb, as of Mugwort or Feverfew; or in some water respecting the Ulcer, as of Plantane, and red Roses, taken now and then with Sugar of Roses, doth cleanse and consolidate or fill up the Ulcer.

Pills of Bdellium given to a dram at a time, or every day, or once in two days one scruple, do very much good, and stop the blood in case it flow.

Or new Pills may be made on purpose, to be used after the same manner; Thus:

Take of Bdellium three drams, Myrrh, Frankincense, of each one dram; Sarcocolla, Storax, Amber, (hebr myrobalans, of each half a dram; red Coral two scruples. With Syrup of Poppies, make a Mass fit for Pills, wherunto, in case of extream pain, a little Opium may be added.

Trochisci Alkekengi. [Cakes compound with Winter-Cherries, of which consult the London Dispensatory] with Opium, are likewise (being powdered) given to drink down, where the Patient is troubled with great pain.

Also to mitigate pain, the same Remedies may be used, which we prescribed for that intent, in our discourse of the Inflammation of the Womb.

This following Powder is very effectual to dry up the Ulcer:

Take Acacia, Juyce of Hypocistis, of each one dram; Dragons blood, fine Starch, Plantane Roots, Birthwort or round Aristolochia Roots, of each half a dram: Bole-armenick one dram; Mastich, Sarcocolla, of each half dram. Make all into a most fine Powder, whose Dose let be one dram, with Plantane water, red Rose water, or water wherein Steel hath been often quenched.

Zacutus Lusitanus in the 87 Observation, and the 88 of his second Book, propounds an Electuary and a water, wherewith he witnesseth, that he had cured Ulcers of the womb judged incurable. Any one may find the Description of them in the places above cited.

To cleanse, dry, and fill up the Ulcer, divers sorts of Injections are usually made; which are nevertheless not to be used, until the Inflammation be first taken away, which is oftentimes attendant upon these kind of Ulcers; and until the pain be asswaged, which is not only very troublesome, but also by vexing the part, it is wont to encrease the flux of Humors.

In regard therefore of that same Inflammation and sharpness of Humors, let Emulsions of the cooling Seeds, Whey of Goats Milk, or Milk it self, either alone, or mingled with the Juyce of Plantane and Shepherds purse; or if need be, a Decoction of Poppy-heads, and the tops of Mallows, be first of all injected. Some Practitioners are of opinion, That luke-warm water alone doth very much good in these cases, if it be often injected. And there is reason for it, seeing by that means the heat and Inflammation of the womb is tempered, the pain is asswaged, and the filth adhering to the Ulcer is washed off. Valescus de Taranta, doth approve of cold water likewise, in these words: *I have known (saith he) some women, who perceiving they had bad Ulcers in their wombs, did wash them with cold Water, and then wipe them clean, and dry them with linnen Cloaths, which they did often put in at the Water-gate. And by these means often renewed, they came many times to be perfectly cured.*

The hot distemper taken away, and the pain asswaged, or for the most part diminished, we must proceed to Cleansers, first using the more light and easie Cleansers, and after the more strong.

The gentle Cleansers are, whey taken with Sugar, Barly-water sweetned with Sugar, or Honey of Roses, to make it more cleansing, or Hydromel simple, (See my Dispensatory) a mixture of water and honey boyled a while together.

For a more strong Cleanser, use the Decoction of Barly, Lentils, shaled Beans, and the Leaves of Smallage, Pellitory of the Wall, Plantane, boyled together, a little Honey of Roses being added to the straining.

When the Ulcer is very foul, the Wound-decoction commonly called *Aqua Catapultarum*, is the best thing that can be used, whose Composition is thus:

Take the Roots of Gentian, Rhapontick, Zedoary, and round Aristolochia or Birthwort, of each one ounce: Whitewine six pints: boyl all till a third part of the Liqueur be consumed. In the straining

straining dissolve half a pound of white Sugar. Let it be kept for use as occasion requires.

Or the following Decoction may be provided :

Take of whole Barly, course Bran, and red Roses, of each one pugil : Leaves of Agrimony, Wormwood, Woodbind, and Smallage, of each one handful : Beans and Lentils, of each three drams : scraped Liquoris, Orris Roots of Florence and Zedoary, of each two ounces. Boyl all in Water, adding towards the end a little Whitewine.

If the Ulcers be very stinking and full of rotten Quittor, there may be added to the Decoction, a little Unguentum *Aegyptiacum*, *Colyrium Lanfranci*, or the Powder of dulcified Mercury.

When the Ulcer shall be well scoured and cleansed, we must use drying and solidating things, made after this manner.

Take the greater Comfry Roots, Bistort Roots, of each one ounce : Leaves of Plantane, Harts tail, shepherds purse, Ladies Mantle, Monf-ear, Tarrow, of each one handful : red Rose Leaves half a handful : Boyl all in water, and make thereof an Injection.

With the which or like Injection, this following flesh-creating powder may be mingled.

Take the Roots of Orris, Birthwort, great Comfry, of each half an ounce : Myrrh one ounce : Aloes three drams. Make all into a powder, of which half an ounce may be mingled with every Injection.

Turpentine wash'd in Plantane water to the quantity of two drams, dissolved with Honey and the Yelk of an Egg, will do very much good, mingled with the Injection ; and the more if the flesh-creating Powder be also added.

The Oyntment *Pompolygos*, *de Cernis*, *de Plumbo*, of each six drams for a Dose, mixed together, are likewise used in Injections. But the Egg-yelk Oyl, rubbed about with a Pestle in a Leaden-Mortar, is better than all the rest.

Fumes received through a close stool, do pierce to the deep Ulcers which are about the bottom of the womb, and dry them : which may be thus prepared :

Take Frankincense, Myrrh, Mastick, Storax, Juniper Gum, Labdanum, of each one ounce : Turpentine as much as shall be requisite. Make all into little Cakes for to be burnt under a close-stool.

In a most stubborn Ulcer, Cinnabarus or Minium being added to the Fume-Cakes, bears away the Bell from all other Medicaments.

Also Baths that are drying, Sulphurous, and Allumish, are used in long Ulcers ; and Physicians are wont to send their desperate Patients to those Baths, as the last Remedy.

It will not likewise be unprofitable to apply convenient plaisters to the Region of the womb, seeing their vertue can pass to the innermost parts of the womb, by the invisible pores of the Body.

If an Ulcer be in the neck of the womb, it must be smeared with scouring and drying Liniments, or Oyntments. The Scourers may be made after this manner.

Take of the Juice of Smallage two ounces : Honey of Roses one ounce and an half : Turpentine half an ounce : Barly meal as much as shall seem convenient. Boyl them all gently, and make them into the form of a Liniment or Oyntment. Or,

Take the round Birthwort half an ounce : Horehound, Centaury the smaller, Agrimony of each half a handful. Boyl them in a fit quantity of Hydromel. To the strained Liquor add the powder of Florentine Orris Root two drams : Barly meal, and Clarified Honey, of each as much as shall suffice. Make all into a Liniment or Oyntment.

And sometimes the Oyntment *Pompolygos* is used, adding thereto, Frankincense, Mastick, Myrrh, Aloes, as the nature of the Ulcer shall require.

When the Ulcer is sufficiently cleansed, a drying and scar-contracting Oyntment is to be laid on, which may be thus made :

Take Tutty Powder washed half an ounce : Licharge of Gold and Silver, Cernis, Sarcocolla, of each two drams : Oyl and Wax as much as will suffice. Make all into an Oyntment.

It falls out sometimes, that Ulcers of the womb do penetrate unto the streight Gut, and sometimes unto the Bladder ; which is known by the Quittor issuing through the water-gate, or the Dung-Gate.

If the Quittor or Matter come out by stool, Lenitive, Scouring, and drying Clysters are to be used ; such as we propounded in our cure of the Bloody flux.

But if the Quittor come away by Urine, gentle Piss-drivers and cooling will be requisite, which may purge out the filth sent into the bladder, and further the cure of the Ulcers ; such as are, Emulsions of the great cold Seeds, after which Turpentine must be used, and other Medicines prescribed for an Ulcer of the bladder.

If the Ulcer degenerate into a Fistula, which chiefly falls out when it opens outwardly towards the Hip, though it may likewise happen in the womb itself, and its neck ; it is to be considered, which

is better for the Patient, to leave that passage free and open to which Nature hath been accustomed, and by which she endeavours to disburden her self of manifold Excrements, or to stop the same. If it be judged best to keep it open, a pallative cure must at least be made by Purges frequently repeated, and Sweat provokers are to be administered twice in a year; also scouring Injections, and strengthening must be used, and *Emplastrum Diapalma, Divinum*, and such like Plaisters, are to be laid upon it. But if there be hopes to make a perfect cure, and heal up the Fistula, such Medicines must be applied, as are wont to be used for the cure of other Fistulae.

If Ulcers happen in the Water-gate, or in the Cavity of the womb, by reason of the Lechers Pox, they cannot be cured without the General cure of the said Pox. In the performance of which cure, of many ways, there is none better than Fumigations of Cinnabaris or Minium; for they do not only help to rid the whole Body of that Infection, but being received into the Cavity of the womb, they do in a peculiar manner hasten the cure of these kind of Ulcers. Likewise in the cure of this Disease, by Quick silver'd Oyntments, the said Oyntments must be conveyed into the inner parts of the Womb.

In whatsoever Ulcers of the Womb, if the neck thereof be molested with an Itch, as it often falls out by reason of a deflux of a sharp and salt Humor into that part; to pacifie the said Itch, a Pessary will be good dipped in *Unguentum Ennlatum cum Mercurio*; or in *Aegyptiacum* dissolved in Sea-water, or in Allum-water; or in new Butter wherein Quick-silver hath been killed, with some Brimstone mingled.

Chap 9. Of a Schirrhus, or a Painless hard Swelling of the Womb.

THe Nature, Sorts, and Causes of a Schirrhus, or hard Swelling in the womb, are the same which have been set down in our Chapter of the like Swelling in the Liver, and need not in this place be vainly repeated, but must be sought for in the said Chapter.

CAUSES. Howbeit among the Antecedent causes, this is proper to an hard swelling of the Womb, and is very frequent; Namely, for women when the flux of their courses or Child-bed purgations are upon them, undiscreeitly to expose themselves to the cold Air, or to drink cold water; whereby the flux is stayed, and the retained blood grows thick, and is condensed, and at length produceth a Schirrhus or stony hard swelling in the womb.

SIGNS. The Signs of such a Swelling bred in the womb, are, An hardness felt in the Region of the womb, such as resists the touch, which hardness represents the compass of the womb; an heaviness in the same place, and a sense of some weight bearing down, especially when the sick woman stands, as though the womb would fall down into the water-gate; but when they sit or lie, it bears upon the streight Gut with its weight. There is no Fever nor pain, wherein it differs from an Inflammation; or at most there is but very little pain in an imperfect Schirrhus, but in the Womb there is none. If it follow an Inflammation, the Fever and pain ceases, the hardness and resistance abiding. If it be in the body of the womb, it is easily discerned by handling the parts about the share; but if it be in the neck of the womb, it is easily discerned by ones finger. It is distinguished from a Mole by the preceding Causes; and because in a Mole, if the Courses flow, they flow disorderly, but in this hard Swelling they keep their order; and in a Mole the womens Dugs strut with Milk, but in the hard Swelling they are extenuated.

PROGNOSTICK. As for the Prognostick Signs, Every Schirrhus or hard stony swelling is very exceeding hard to cure; for an extream Hardness once contracted can hardly be softened; also Natural heat is so very weak in that part where there is such a swelling, that it can very hardly discuss an hard and almost stony substance.

A great and unvanquishable Schirrhus, or stony Swelling, doth at length bring the Dropsie to keep him company.

A Schirrhus, or stony hard Swelling of the womb, if it be tampered withall with over-hot and moist Medicaments it turns into a Cancer.

CURE. The Cure of this Disease aims at two things, the antecedent cause, and the conjoynd or concomitant cause.

In respect of the antecedent cause, a vein must be opened first in the Arms, if the Disease be of no very long continuance; afterward in the lower parts, especially when the Patients courses are stopt.

The opening of the Hemorrhoid veins, is also very profitable in this case. For they do both evacuate dreggy blood, and they turn the humor from the womb, because of the communion which the veins have with the womb.

Purging is likewise necessary, by fits repeated, procured by such Medicines as purge Melancholly, using

using first the gentler, and then the stronger sort by degrees.

And before the Purges, such things must be given as prepare the Melancholy Humor, and opens the narrow passages of the Excrements, in the form of Apozemes, Juleps, or Broths, according to the disposition of the sick party.

And besides the ordinary Openers, Medicines with Steel must be likewise used, whereby those strongest obstructions caused by thick and rebellious humors in the Womb and other parts, may be dissolved.

And that superfluous humors may be derived from the Womb, Issues may profitably be made in the Thighs, which are to be kept open until the Patients monthly courses, (which are commonly stopt in this Disease) shall return unto their ordinary form, in respect of time, quantity, and quality.

In respect of the conjoined Cause, Emollient and Resolving Medicaments are to be applied outwardly, compounded after this manner.

Take the Roots of Marshmallows and Lillies, of each two ounces: the leaves of Mallows, Violets, Marshmallows, Bears-foot, of each one handful: Leaves of Mugwort, Nep, of each half a handful: seeds of Line and Fenugreek of each one ounce: Flowers of Chamomel and Melilot, of each a pugil. Make a Decoction of all, wherewith the Region of the share and the groins must be fomented, a warm sponge being first dipped therein, and then squeezed out, and so laid on, and held to the part aforesaid.

For the greater mollifying, the Decoction may be made in water and sweet Oyl, or in the broth made of a Wethers guts.

There may also be added to the Decoction, that it may become more powerful, the roots of Briony and wild Cucumers; for we must begin with the milder, and proceed to the stronger by degrees.

Of the same Decoction (augmenting the quantity of the Simples) may a Bath be made for the Patient to sit in, which is very effectual in this case, and more powerful than a Fomentation.

Also frequent Clysters and Injections into the Womb are to be made of the same Decoction, whereunto the Oyls of Lillies, Chamomel, or sweet Almonds, may be added.

Take of the Oyl of Lillies, and sweet Almonds, of each three ounces: Mucilage of Fenugreek-seed extracted with White-wine one ounce: Hens, Goose, and Ducks fat, of each one ounce and an half, new Butter and Hogs Grease, of each two ounces: Wax and Turpentine as much as shall suffice. Make all into an Ointment.

This which follows is approved in all hard swellings, being described by Rhasis in his Seventh Book dedicated to King Almanzor.

Take Bdellium, Ammoniacum, Galbanum, of each equal quantities: beat them in a mortar with Oyl of Ben and of Lillies; then add the Mucilage of Fenugreek-seed, Lin-seed, and Figs, in equal quantities. Make all into an Ointment.

Of the same Materials, adding Wax, may a most effectual Plaister be made, to be applied to the Region of the Womb, both before and behind. Or a Plaister may be applied made of *Emplastrum Diacbylunt ireatum*.

A Cataplasm or Pultis may be made of what remains after the Decoction aforesaid, being beaten and forced through an Hair Serce, adding of the meal of Linseed and Fenugreek-seed, of each an ounce; six Figs, two drams of Orris root, half a dram of Saffron, Hens Grease, and Oyl of sweet-Almonds, of each a sufficient quantity. Make of all a Pultis.

The Bituminous clay taken out of Brimstone Baths, and such as are Bituminous, is profitably applied as a Cataplasm.

The Fume of the Stone called *Pyrites* [that is, the *Marchasite*, or *Fire-stone*] being made red hot, and quenched in Vinegar, is by *Galen* wonderfully extolled for dissolving all stony hard Swellings, so that it works like a Charm. In the said Vinegar, Savory, and Pellitory may be boyled: but care must be had, lest your *Lapis Pyrites* prove to be the Stone called *Plumbarius*, or the Lead-stone which would do very much hurt.

Finally, All the medicines, as well internal as external, which were before described in our Cure of the hard Swellings of the Liver and Spleen, may also be useful in this case.

Yet must these medicaments in the whole course of the cure be moderated and accommodated with the greatest judgement and discretion imaginable, lest the hard Swelling become harder; or (which is much worse) degenerate into a Cancer, Which all Practitioners fear, when medicaments are unwarily administered for a long time together: so that it is better sometimes to pause, and give or apply nothing, that we may mark what good is done by the former applications. For it is vain striving, when the Swelling (having lost all fence of feeling) hath put on the Nature of a Stone.

CHAP. X.

Of a Cancer of the Womb.

A Cancer is a hard Swelling of the Body or Neck of the womb; which resists the touch, and causeth a most vehement pain, as it were pricking and cutting the part affected.

CAUSES. It is caused by a black Choller gathered in that part, or by reason of a Schirrhus, or senseless hard tumor ill cured, which easily turns into a Cancer, especially in this part of the Body; by reason of the copious afflux of blood, which being retained in those veins which are nigh unto the Schirrhus, and not sufficiently evacuated by the monthly purgations, it becomes adust or burned, and acquires a malignant disposition.

DIFFERENCES. It is ordinarily reckoned to be of two sorts, Ulcerate, and not Ulcerate.

So long as the Morbifick matter is of lesser acrimony and malignity, it causeth a Cancer not Ulcerated; but when it grows more sharp by putrefaction or adustion, it doth exulcerate the tumor, and produce an ulcerated Cancer.

DIAG. The Disease may easily be known by the definition propounded; for if an hard Tumor resisting the touch be felt in the Body of the womb, or its Neck, causing a pricking and cutting pain, we may pronounce boldly that it is a Cancer. Yet it is more evidently distinguished by the eyesight, when it may be seen as in the neck of the womb it may be, with help of a womb-perspective Instrument; for we shall see an uneven and bunching swelling, Lead coloured or black, compassed about with certain branches of veins; as it were with roots; but if it be ulcerated, it sends forth a certain blood-watry quitor or matter which is yellowish or black, and stinking; and sometimes blood, by corrosion of the veins which pass through that part, sometimes in such quantity that the Patient incurs danger of death. Hereunto is added a small Fever, inquietness, Stomach-sickness, an heat in and about the Water-gate, &c.

PROG. By way of Prognostication, we can only say thus much, That a Cancer is incurable, be it ulcerated or not ulcerated. Which as it is true of all Cancers, not excepting those in the outer parts of the body; much more is it of a Cancer in the womb, by reason of the perpetual Common-shore of Excrements which flows into the part.

CURE. Seeing then a perfect Cure cannot be hoped for, we must content our selves with such a Cure as is called *Palliative*. The scope whereof is, to hinder a not ulcerated Cancer from ulcerating; and an exulcerated Cancer, from the becoming more exulcerate: and in both to allay & temper the extremity of the pain. Which must be done, first by universal Purgations of the whole Body, and by other Medicines which may qualifie and evacuate the black Chollerick, and melancholick blood, and hinder the further generation thereof. In the number of which are, bleeding in the Arm, Anle, and Hemorrhoid veins: Potions, Apozems, Juleps, broths, Milk, Whey, cold mineral Waters, and such like Remedies as these usually prescribed by Practitioners for the cure of all Cancers in what part of the body soever. And especially Purgations must be frequently reiterated, that the antecedent matter of a Cancer may be abated.

And then outward Remedies are to be used, such as are moderately cool and astringent, without any corrosive or biting quality; they are commonly applied in form of Liniments or Oyntments. The best are made after this manner:

Take Oyl of Myrtles and Roses, of each two ounces: Juice of Nightshade and Honsleek, of each one ounce. Stir all together in a Leaden Mortar with a Leaden Pestle, until they grow black: then add Litharge of Silver, and Ceruss, both washed in Scabious water, of each two drams: Camphire ten grains: make all into an Oyntment, with which let the part affected be smeared three or four times a day. Or,

Take of Oyl of Egg-yelks, and of roses, of each one ounce and an half; Sugar of Lead one dram, stir them together in a Leaden mortar till their colour change.

This following puts down all the rest, wherewith Swellings of the dugs which have been accounted Cancerous, have been perfectly cured.

Take Egg-Yelks Oyl two ounces: Juice of Nightshade and Veronica or Honsleek, of each half an ounce: Quick silver not killed two drams. Stir them lustily together in a leaden mortar, with a leaden pestle, till they become thick as an Oyntment.

The foresaid Oyntments are to be conveyed into the womb upon long tents, or upon wax Candles, wound in Linnen. But Injections may much more easily be conveyed into the Womb. They are compounded on this manner:

Take Barly Water half a pint: Nightshade and Plantane Water, of each two ounces: Water of Honsleek one ounce: white Troches of Rhasis two drams: Sugar of Lead one dram. Make of all an Injection. If pain be very vehement, add to four ounces of the Injection, one ounce of Syrup of Poppies.

Also

Also let the part affected be fomented with the waters of Plantane and Nightshade, or their Decoctions, whereunto may be added the Leaves of Water Lilly, white Poppy, red Roses, and Camphire. Which Decoction may also frequently be injected into the womb, and it will become much more effectual, if it shall be well wrought about in a Leaden Mortar, or a dram of the Sugar of Lead be added to it.

Among Specifick Remedies, Frogs are commended, being washed and boyled, and laid on as a Pultis, or their Broth being used as an Injection. Also the Decoction, or juyce of River Crabs, injected into the Womb. As also Herb Robert used inwardly, outwardly.

If the Cancer be ulcerated, the Dose of Minerals must be augmented in the aforesaid Liniments, and to them the ashes of River Crabs may profitably be added. And with the Injections, the white Troches of *Rhasis* may be mingled, and Barly Water with the Materials of the aforesaid Injection.

If pain be very urgent, Fomentations of Mallows, Marshmallows, Water Lillies, Poppy, Henbane, Green Coriander, Dill, Fleawort seeds, Milk, Saffron, and the like, are to be used at convenient seasons; or Pultesses made of them are to be applied. And of their Decoctions, Injections, and Baths to fit in, may be provided.

Yet will not all these Medicaments sometimes serve turn to pacifie a most cruel pain, which sometimes gives the Patient neither rest nor sleep. Which compels us many times to make use of Narcotick or stupefactive Medicines, which in this Disease, by reason of the exceeding Heat of the Humors, do less hurt. And I have seen a woman, having a Cancer in her Dug, that took every night for four months together, two or three grains of Laudanum, and had no hurt, but very great comfort thereby.

If from an ulcerated Cancer much blood do proceed, as it often falls out, let Juyce of Plantane with a little Frankincense be injected into the womb.

CHAP. XI.

Of Mortification, or Gangrenation, and Sphacelation, or Blasting of the Womb.

A Gangrene is the corruption or mortification of a part beginning; but when it is wholly corrupted, and dead, it is said to be Sphacelated or blasted.

CAUSES. In the Genetal parts of Women, this Disease is easily bred, because those parts are moister and softer than ordinary, and do easily receive the Excrements of the whole Body.

It often follows an Inflammation, Imposthume, Ulcer, or Cancer ill cured; when the vital heat of that part is choaked, or destroyed. It is choaked in great Inflammations, when more blood flows in than the Natural heat of the part can digest, or turn into Matter. It is destroyed, either by a cold distemper extinguishing it, or by an hot one, dissipating and resolving the same.

DIAGNOSTICK. A beginning Gangrene is know by an unusual heat felt in the part, a horror and trembling seizes upon the Patient, with a languishing and quick beating pulse, and with fainting away, or swooning. And seeing this Disease doth for the most part happen to the Neck of the Womb, so that the part affected may be perceived by the Eye; it is discovered to be soft, Lead-coloured, black and carrion-like, and may be prickt or cut, and the Patient never feel it; and it sends forth besides, a stinking and carrion-like smell.

PROGNOSTICK. As for the Prognostick or Predictions belonging to this Disease, It's a most grievous, most dangerous Disease, and for the most part deadly: yet it hath been observed by very many Authors, That the womb being putrified and Gangrenated, hath either fallen away of it self, or been cut away, the womans lives being saved: which Observations of Authors *Schenkius* hath collected to a great number, in the fourth Book of his Observations.

CURE. The Cure is performed with the same Remedies which are wont to be applied to other parts being Gangrenated, if it be in the neck of the Womb, or tend toward the outward parts; as namely with Scarrifications, and washings or bathings with a Decoction of Wormwood, Myrrh, and such like, with the Oyntment called *Aegyptiacum*, the Cataplasme called *De Tribus farinis*, which is thus made:

Take Barly meal, Bean meal, and Orobus meal, of each two ounces. Ozymel one pound: Boyl them to the thickness of a Pultis or Cataplasme. Whereunto if there be added, meal of Lupines, Myrrh, Aloes, and Wormwood, it will be more effectual.

If any part of the womb be wholly corrupt and dead, it must be cut off; or if the Womb fall down, it must be separated, by binding the Ligature every day faster and closer. Of which kind of Operations, there be many Examples collected by *Schenkius* in the fourth Book of his Observations.

Wierus also relates in his Observations, That he cured a woman of twenty five years of Age, who

in the the hottest of the Dog-days, had a certain little bunch growing in her water-gate: Whereunto an unskilful Chyrurgion applying Pukeffes that were not proper, within a few days, all that part began to putrifie, grow black and dead, and the Disease pass on with incredible swiftness towards the Dung-gate. And *Wierus* undertook the cure after this Method; First, he squirted good store of the Juyce of Nightshade and Plantane with a Syringe into both the passages three or four times aday; between which times, he applied a bolster wet with the foresaid Juyces, Vinegar being mixed therewith; which growing dry was wet again with the same Liquor. And in this course of reiterated Application he continued till the fervent heat was quenched, and the putrification began to cease, She took in the mean while, thrice every day, a Potion of the Decoction of Sorril, Scabious, Burnet, Damask Prunes, the tops of Borage and Buglois, Marigold flowers, with Water, Sugar, and Vinegar, made in the manner of a long acid, or sharp Syrup. Her Diet was spare, but cooling and tart, to prevent putrification. On the third day, the fury of the burning heat, and of the putrification, was abated. Whereupon he commanded the black and dead flesh to be drawn or plucked out with a little Forceps [a Chyrurgions Instrument, like Tongs or Pincers] and seperated round about from the live flesh without any pain, and so be cut off. Then he consumed the reliques even to the live flesh with the Oyntment called *Aegyptiacum*, And proceeded to cicatrize, or bring it to a Scar, after the same manner which is used in other Ulcers.

In the whole course of the cure, care must be had to strengthen the Heart, both by things given in, and applied outwardly. Likewise Emollient, Cleansing, and Refrigerating Clysters, are frequently to be given, which do much help the part affected, by reason of the Neighborhood.

CHAP. XII.

Of the Wombs Wind and Water Swelling, or Dropsie.

THe Inflation or blowing up of the Womb with Wind, and its Dropsie, are by Writers confounded or jumbled together; so that they call the Inflation a Dropsie coming of wind; whereas the Dropsie properly so called is ingendered by a watry Humor. Yet are they distinguished, and there is a certain puffing up of the womb with wind, suddenly rushing in, and stretching the same, and causing vehement pain, as in the Chollick; which because it continues not, but is soon discussed, it deserves not the name of Dropsie; and such a puffing up is often seen in Hysterical women which have the Womb fits.

D I F F E R E N C E S. There is therefore to be reckoned a two-fold Dropsie of the Womb; one from wind, which is like that sort of Belly-Dropsie which is termed *Tympanites*; or the Drum-belly Dropsie: another arising from a wheyish Humor, answering to the Dropsie of the belly, called *Ascites*, that is, the Bottle-belly Dropsie: Some add a third sort, answering to the third sort of Belly-dropsies, called from its cause, *Leucophlegmatia*, that is, white-flegm Dropsie, which is seldom seen in the course of Practice. Yet I have seen a Gentlewoman, which in one day voided such plenty of thick flegm out of her womb, as might weigh probably six or seven pound weight: which flegm long retained, might doubtless have caused in her a Dropsie of the Womb.

Wind and water causing a Dropsie of the womb, are contained either within the Cavity of the womb, or in its Membranes, or in certain Bladders. Touching the Cavity of the womb, it is somewhat doubted how wind and Humors can be contained therein, seeing there is so easie a Passage through the neck and mouth of the womb. We answer, the inner Orifice or mouth of the womb, may be closed by divers ways; either by thick flegm sticking fast thereunto, and growing hard, or by a Schirrhus, or some other cause. *Mercatus* conceives, That a snotty kind of flegm is voided by the mouths of those veins which are ordained for the monthly Purgations, and that of the said snotty flegm a skin is framed, which covers all the inner surface of the womb, within which thin skin, the wheyish and windy Matter is contained. But *Fernelius* thinks, That water may be contained in the womb, without any thing amiss in its mouth, but barely by its constriction or purfing of it self together. All these sorts are to be allowed of, and may be confirmed by divers Examples.

And first of all, Examples of winds contained in the womb-cavity, are recited by *Sennertus* in the Fourth Book of his Practice, Part 1. Sect. 2. Chap. 10. The first is taken out of *Valesius de Taranta*, touching a certain Jewish woman of *Lisbon*, who taking her self to be with Child, when she expected to be delivered, a great quantity of wind came away, and so her womb was brought down again. The Second is taken out of *Mathiolus de Gradi*, who relates the same thing to have befallen his own Wife, and other Examples taken out of *Dodonaeus*, *Thadæus*, *Dunus*, and other writers, do testify the like Cases; and we see the same often in the course of our Practice whereunto may be added a History, which we shall in the Cure relate out of *Selenander*, of a woman who

by

by means of a Fumigation made of Nutmegs, let wind fly out of her womb, which gave a report like a Pistol.

And Examples of water contained in the womb are propounded by the said *Sennertus* out of *Rhasis*, who saw a woman out of whose womb there flowed twenty five *Cotilacs* of water, which is a Measure not used with us, containing about half an Ale-pint. Also out of *Jacobus de Partibus*, and *Dononans*, who relate such a like Story. And *Vesalius* Dissected or Anatomized a woman, in the hollownes of whose womb were found above sixty *Aufsburg* Measures of water, each Measure containing three pints, and the mouth of her womb was grown to a wonderful hardness.

And that water is sometimes contained in the womb in bladders, many Authors do testifie, who have seen examples thereof in some women, who voided such bladders full of water from their wombs; among the rest *Actius*, *Valeriola*, *Christopherus a Vega*, *Mercatus*, *Platerus*, and *Fabricius Hildanus*.

Sometimes also women with Child have a Dropsie at the same time in their wombs, as *Fabricius Hildanus* relates of his own wife, whose Belly was swelled to a monstrous greatness; and at the time of her delivery, she voided first of all eighteen pints of water; and half an hour after, nine pints more; and at last she was delivered of a Boy, strong and healthy. The like case we find in *Skenkins* but with a contrary event, concerning a woman, who being delivered of a living Child, continued still big-bellied, and her belly growing still greater and greater, she died of it; and her womb being opened, a great quantity of water was found therein.

Finally, *Fernelius* hath an Example in the sixth Book of Diseases, Chap. 15. of Water retained in the womb, only by reason of the close shutting of the mouth of the womb without any other fault therein. The story is of a woman that had a Dropsie in her womb, who as often as she had her monthly Purgations, voided all her watry Excrements out of her womb, filling six or eight Basons with a very hot yellowish water, till the swelling of her belly was wholly abated. The next month the like redundancy of watry Excrements being collected, was in like manner evacuated.

CAUSES. The immediate Cause of the windy and watry Swelling of the womb, is the weakness of Natural heat residing in the Liver or Spleen; and from those parts, wind, flegm, or wheyish humors are transmitted unto the womb; or the weakness is in the womb it self, whereby the said Excrements are therein collected and heaped together.

And the causes which weaken natural heat, either directly, or by accident, are very many, and the chief are, of those things which are called by Physicians, *Ros non Naturales*, things not Natural: So, cold Air especially after Child-birth, heedlessly received into the womb, is a most effectual cause of this Infirmary. Also cold Air unseasonably received when the Courses flow, and going frequently into cold water, or paddling in the same, especially during the said flux, is a cause thereof. So is much use of cold meats, or windy, as fruits, Herbs, Beans and Pease, and likewise of Vinegar: cold water plentifully and unseasonably drunk down, long and deep sleep, painful childing and abortion, especially if it often happen; immoderate flux of the Courses, exhausting the Natural heat, or their suppression, choaking the same. Add to these the proper Diseases of the womb as swellings, Ulcers, and such like, which do resolve the heat of the part; or else shut the mouth of the womb, and hinder the egress of Menstrual blood, and excrementitious Humors.

DIAGNOSTICK. In the Discovery of this Disease, many things are to be considered:

First, How this particular Dropsie of the womb, may be known and distinguished from that of the whole Body?

Secondly, How the several sorts of this womb-dropsie may be discerned, as whether it come from winds, from wheyish Humors or from flegm?

Thirdly, whether it proceed primarily from some infirmity of the womb, or by fault of some other parts of the Body?

Fourthly, whether the Matter offending be contained in the Cavity of the wombs, or between its Membranes, or in certain Bladders?

Fifthly, How to distinguish it from other Tumors of the womb.

Sixthly, How from being great with Child?

Seventhly, How it may be known from a Mole?

As for the first Question. It is distinguished from an Universal Dropsie of the Belly, in that the womb-dropsie swells chiefly the lower part of the Belly; whereas the universal Dropsie distends equally the whole belly in all the parts thereof. Again, in the womb-dropsie, paleness and falling away of the flesh of the whole Body, are not so soon discerned as in the Universal Dropsie, in which also for the most part, there is evident thirst and dryness in the tongue, which are not found in the Womb-Dropsie, in which all other Symptoms are likewise far more gentle than is usual in the universal Dropsie. In a word, In the Womb-Dropsie, some wind breaks out of the womb by fits, or a little water comes away, which evidently declare, that wind or water are contained in the womb.

To the second Question we Answer thus. That the sorts of the womb-dropsies may be known from one another after this manner. If it arise from wind, the lower part of the belly being struck, gives a sound; the belly is afflicted with the pricking pains, which reach sometimes as far as the Midriff, Stomach, Loyns, and other parts; sometimes wind breaks evidently out of the neck of the Womb. Likewise, women often feel their Wombs rising like a Globe towards their Stomach. Sometimes their breath is short and the sick woman when she awakes out of sleep, oftentimes is much troubled to fetch her wind. After all meat and drink whatever, they are worse. They often belch, and their belchings give them ease. They are oft troubled with Womb fits or suffocation of the Mother. Sometimes they are pained below the Navil, so as they cannot endure to be touched. Those Signs do also appear in the Inflation or Blowing up of the Womb with wind, which differs from this Disease (as was said before) only in this, that the Inflation is of less durance, but a Dropsie of wind continues a far longer time.

But if the Wombs Dropsie arise from a wheyish Humor, the Regions thereof appear soft and flaggy; whereas wind stretches it stiff: there is a greater heaviness in the part, and a noise as of water flowing this way and that way: some water now and then drops from the Privity. And finally if it arise from flegm, the softness and flagginess of the part will be yet greater, and encrease daily more and more; and the bordering parts, as all under the Navil, the Privy parts, the space between the Privity and Fundament, with the Loyns, will be seen with a Phlegmatick kind of Swelling.

To the Third Question we answer thus. If there be apparent tokens of the whole Bodies being misaffected, as by acute or long fevers, immoderate fluxes of blood, grievous distillations from the Head, weaknesses of the Stomach; Swellings of the Spleen or Liver, and other stubborn Diseases of those parts, with which the Wombs Dropsie began, encreasing as they encreased; it will be more than an even lay, that the womb receives the matter of its Dropsie from those parts by way of a flux of Rheume. But if this womb swelling happen when the whole Body is in good health, and do succeed particular Diseases of the Womb, such as are hard Travels in Child-birth, suppressions of the monthly courses, or over-great flux thereof, Ulcers, Cholerick, or Melancholick, or hard Tumors, we may conjecture, that the Wombs-Dropsie doth depend upon those particular dispositiöns, and that the matter causing the said Tumor is gathered together in the womb it self, by means of its inability perfectly to digest and assimilate its nutriment.

To the fourth Question, we may answer by saying, That the matter which is contained in the Cavity of the womb, doth make a much larger Swelling than when it is contained in bladders. Again, when it proceeds from a wheyish Humor, a greater fluctuation of the water is perceived than when it is contained in bladders. And if so be, little bladders full of water be voided out of the womb, it's a most certain sign, that the Humor is contained in the little bladders.

To the Fifth Question we must answer; that the wombs-dropsie is differenced from Tumors of blood or Choler, arising in the womb; because in such Tumors or Swellings there is a fever and a pain which is encreased by the least touch; also the Inflammation reaching even to the parts of Generation. And it is distinguished from Schirrhus and Cancerous Swellings, because in it there is no such great hardness, which can resist the impression of the finger, but it rather gives way, and pitts.

To the Sixth Quære we say: when a woman is big with Child, the swelling is not so even and depressed, but it is sharp bunched out, and seems greater about the Navil than elsewhere. Secondly, In greatness with Child, after some months, women are for the most part somewhat better than they were, because the Child grown big consumes the greater part of those humors, which in the first months were burdensome: But the Dropsie, the further it proceeds the worse it grows. Thirdly, In greatness with Child, the Child is manifestly perceived to stir, after the third or fourth month; which is not in the Womb-Dropsie. Yet it falls out sometimes, that when the Dropsie is caused by wind, a certain Palpitation is perceived in the womb; but it is easily distinguished from the moving of a Child, which is more even, and is wont to be perceived in divers parts of the Belly. Fourthly, in greatness of Child, the womans duggs swell; but in the Dropsie they are extenuated and become smaller.

To the seventh Quære we answer, that in a Mole, women find a kind of heaviness in their wombs, which they feel not in the womb-dropsie; and when they lie on the one of their sides, they perceive the weight to rooll like a stone to that side. Again, in the Mole, violent flux of Courses comes by fits; Namely, every third or fourth month; which happens not in the womb-dropsie. Lastly, in case of a Mole, the Duggs swell, and sometimes have milk; in the womb-dropsie, quite Contrary.

PROGNOSTICK. As touching the Prognosticks of this Disease. A simple Inflation or puffing up of the womb with wind, because it lasts not, is without danger. Yet if not quickly cured, it may grow to a true Dropsie.

A womb Dropsie caused by a good conditioned Humor void of putrefaction, is wont to prove a long

long Disease; yet may it in process of time be cured, yea sometimes, the water flows of its own accord out of the womb, and the Patient recovers her health.

But if the Humor be malignant, sharp, or putrid, which is known by the grievous Symptoms following; the Disease is dangerous, and for the most part deadly: For if the Disease depend upon some private Disease of the womb, it betokens a perfect ruine of the natural Functions of that part; whence follows at last an universal Dropsie of the whole Body. But if the womb suffer by consent of other parts, viz. of the Liver, Spleen, or Stomach, the Mischief will be the greater, and ruine is thereby threatned to the whole Body. Hence it was well said of *Actius*, Such as is a womans womb, such for the most part is the rest of her Body.

If wind or water be contained in the Cavity of the Womb, it is more easily cured than if it be shut within little skins or bladders.

[U R E.] The Cure of this Disease is performed almost by the same Remedies which have been propounded to cure the Dropsie and Green-sickness. Whereunto some things more properly belonging to this Disease must be added. And in the first place concerning Blood-letting; In the Disease, being new, proceeding from a suppression of the Courses and from Plenitude still appearing, blood-letting may be convenient; otherwise it will hurt, seeing natural heat is exceedingly weakened and diminished; and stubborn Obstructions caused by a cold Humor, do cause fear of an Universal Dropsie.

But Purging is altogether necessary, and must be often reiterated, as we ordered in the forenamed Diseases.

After sufficient Purgation, Openers, Diureticks, and such things as move the Courses, are to be given, such as are described in the places aforesaid. Unto which, these following may be added.

Take Roots of Smallage, and of Madder, of each half an ounce; the Leaves of Savin, Feaverfew, Pennyroyal, of each one pugil: Carrot-seeds one dram. Boyl all in the Broth of a young Pidgeon, and let her drink the strained Liquor divers days together.

Before she drink of the Broth, let her swallow one of the following Pills.

Take the best Castoreum, Myrrh, Madder, of each half a dram: Saffron twenty grains, With Juyc of Lemmons make all into nine Pills.

After which Medicaments the Patient must exercise her self stoutly, by which means, not only the Excrements bred in the Bowels, and the whole compass of the Body, may by assistance of heat be dissipated; But all which is contained in the womb may be voided out, the bladders being broken by violence of the exercise.

If the woman do easily vomit, something may be profitably given her twice in a week to that end; by which means, not only the Humors which were wont to flow unto the womb, will be recalled, and brought forth; but the aforesaid bladders sticking in the womb, and sometimes containing a watry Humor, happily may be broken by the vehement motion and agitation, whereupon the Humor offending will be voided.

To discuss the said Humor contained in the womb, the following Bolus or Morfel, will be most effectual.

Take of Mineral Borax half a dram: Saffron twenty grains. With Juyc of Savin make all into a Morfel. Let it be taken twice in a week.

Sweat-drivers are likewise very profitable in this disease: for by them, wheyish and flegmatick humors, whether in the womb, or the whole body, are discussed and evacuated.

In the mean while, the inbred heat of the Stomach must be strengthened both with things given inwardly, and outwardly applied, described in the Cures of the diseases of that part.

And outwardly, Medicines must be applied, to strengthen the womb, and to discuss the Humors contained therein.

And in the first place, Fomentations and Baths to sit in, may be made of a Decoction of Briony roots, wild Cucumber, the leaves of Danewort or Dwarf-elder, Mercury, Elder, Origanum, Calamint, wormwood, Rue, Sage, Marjoram, Thyme, Bay Pennyroyal, Mugwort; Seeds of Broom, Carrots, Cummin, Annis, Fennel; Berries of the Bay and Juniper Tree; Flowers of Chamomel, Melilot, and Rosemary. Of which, little bags may likewise be made, boyled in Whitewine. Or the foresaid Ingredients or some of them, may be boyled in the Lye made of the ashes of Vine-boughs.

And that the foresaid Fomentations may work the better, they are to be applied before and behind; and the sick woman ought to sweat, if she can, in her bed, or in a Stove conveniently prepared: Which likewise may be procured by help of a Bathing-Tub.

In a windy Dropsie, dry Fomentations will be more profitable, with bags of Millet, Salt, Cummin-Seed, and Bran, fryed in a pan and besprinkled with wine.

After Fomentation, let her Belly from the Navil downward, be anointed with Nard Oyl, Oyl of Dill, Oyl of Rue, Wormwood, and Southernwood; which Oyls, if drawn out by Chymical Art, they will be much more effectual.

After Uñction, lay on a Plaister of Bay-berries, or Pultis of Cows and Sheeps-dung, with Seed of Smallage, Parsly, and Cummin, as also Honey boyled therewith.

To the same purpose the Skin of a Sheep newly killed is commended, sprinkled with warm Canary-Sack, and laid warm upon the Belly.

Clysters are frequently to be given made of the Decoction of Wormwood, Origanum, Penyroyal, Rue, Centaury, and the like; Or of the Oyl of Rue, Nuts and Dill, with Whitewine, Hypocras, or Muscadine. In which Clysters dissolve *Benedicta Laxativa*, *Hiera Diacolocynthidos*, *Terebinthinam*, Confection of Bay-berries, Rosemary-flowers, Honey, and the like.

Injections into the womb may be very profitable to evacuate the Humors contained therein, being compounded after this manner.

Take Roots of *Asarabacca* three drams: Leaves of Penyroyal, Calaminth, of each half a handful: Savin a pugil: Mechoacan a dram: Annis-seed Cummin-seed, of each half a dram. Boyl all, and in six ounces of the strained Liquor, dissolve an ounce of Oyl of Orris, and as much of Elder Oyl, and make thereof an Injection.

To the same end may Pessaries be made, thus:

Take *Coloquintida* and Mechoacan, of each one dram: Sal Nitre ten grains: boyled Honey as much as shall suffice. Make all into a Pessary. Or,

Take Bind weed Roots, Roots of *Esula*, of each one dram: Seed of Gith, or *Nigella Roman*, half a dram: Honey as much as shall suffice. Make all into a Pessary. Or,

Take *Elaterium* half a dram: bruised figs as much as shall be requisite. Make them all into a Pessary.

When the Swelling of the womb proceeds from wind, a Fumigation of Nutmegs is very helpful, being commended by *Solenander*, in these words: *A Woman newly out of Child-bed, exposing her self over-soon to the Wind and Air, fell into insufferable pains, neither could she find any help. At last comes an old well experienced Midwife, and calls for three Nutmegs grossly powdered. Then she put an Earthen pan with hot Coals under the woman, and sprinkled the powder of Nutmegs upon the Coals, so placing the pan, that the woman might receive the smoak through a Funnel into her womb by the Water-Gate. At the same time she was smoaked above with the same Fume: Which when it had penetrated into her body, the woman presently cryed out, I must needs go to stool: which she had hardly spoken, but a fizzing and sound was heard, such as is made when Gun-powder is fired, being shut in a narrow box: which wind being expelled, the woman was perfectly well in a moment. Being advised by this Experiment, having upon like occasion used the like Remedy, I have very often found it to do much good.*

In the same case, Cupping-glasses with much flame are profitably set upon the Navil, for they excellently dispel wind.

If the Disease come from Humors, Issues are to be made in the thighs, that by those Fountains the filth of the womb may be by little and little drained out.

Brimstone and Nitrous Baths are likewise commended by many, both to drink, and to be washed in; provided there be no great heat of the Liver or whole body conjoyned with this Disease.

For the pain of the womb, which is frequently troublesome in this Disease, *Amatus Lusitanus* commends the water or Decoction of Chamomel-flowers, given to the quantity of four or five ounces.

And finally, If the Inflation or puffing up of the womb happen after Child birth, there will need no other Purgation than that by the womb: Which if it find any hinderance, it must be helped forwards by drawing Pessaries, and by Cupping-Glasses fastened to the Thighs, and by other Medicines described in our Chapter of Suppression of the Courses. And if there be wind, the Fumigation made of Nutmeg aforesaid, will be most seasonable.

Chap. 3. Of the falling down of the Womb.

When the Womb loseth its Natural Scituation, and falls toward the Water-Gate, the Disease is termed, the falling down, or slipping forward of the Womb.

DIFFERENCES.] Many Differences there are of this Disease, differing only in degrees: for sometimes only the inner Neck falls down into the Water-Gate: sometimes the whole body of the Womb falls downwards, but does not appear without the Water-Gate, in the threshold whereof appears the inner mouth of the Womb, in likeness of a mans Yard, or a Goose Egg with an hole in it: Otherwhiles with the bottom turned out, it hangs without the Water-Gate like a mans God, or an Ostridges Egg, save that it is rugged, and hath an uneven surface: and it is in a word, sometimes so relaxed, that it falls so far out as to reach the Patients Thighs.

CAUSES. The immediate Cause of the falling down of the womb is the Rupture, or Relaxation of those Ligaments which are wont to retain it, and its neck, in their proper place.

A Rupture of the aforesaid Ligaments may proceed from all violent Causes, as a blow, a fall, dancing and leaping, lifting some heavy burden, or carrying the same, violent compression of the Abdomen: vehement Coughing which endures long, violent sneezing, especially in Child-bed, hard straining to stool, difficult Travail, violent extraction of the Child out of the womb, or of the After-birth; vehement endeavour of the womb to cast out somewhat offensive thereunto, as a dead Child, a Mole, or an After-birth; for then, according to *Galen*, in his Third Book of Natural Faculties, the same thing betides the womb, which is wont to happen to two wrestlers who endeavour to throw one the other upon the ground, till both fall together. Hereunto add, frequent setting of Cupping glasses upon the Thighs, and very vehement agitation of Body, or of Mind.

Relaxation or slackening of the Ligaments is caused likewise by divers causes, as by a long lasting Catarrh, divers Crudities, which are cast out into the womb, as the sink of the whole Body. Whence it is that women long troubled with the Whites, can scarce avoid this disease, especially elderly women which are most of all troubled therewith. Add hereunto external causes, as are over frequent bathing, especially in cold water; Southern and moist Air, especially being received into the Womb after Child-birth; moist Diet, much drinking, Idleness, long sleep, and all other causes, which may increase flegm, and cause its flux into the Womb.

SIGNS. The Signs whereby to know this Disease are evident to the sense. For the womb is found sticking in the Water-Gate like an Hen or Gooses Egg, or like a Clew of Thred, with the perceivance of a weight pressing upon the Water-Gate, when the Patient stands upright. And while they sit or go to stool, a vehement pain is felt about the privy Parts, and the Regions of *Os sacrum*, or the Hanch-bone. If it hang far out, the greater pain and heat is felt, the Urine comes away by little and little, and makes the womb smart as it passeth.

The Causes procuring this falling down of the womb, may be thus distinguished. If it proceed from looseness or slackness of the Ligaments, it comes by little and little, hath the less pain, and white Purgations have preceded, or other Causes moistening the womb, and relaxing the Ligaments thereof. But if it proceed from a breaking of the Ligaments, the pain is more vehement, and blood sometimes breaks forth; and such Causes have preceded which have been able to break with violence the Ligaments.

PROGNOSTICK.] As for the Prognosticks belonging to this Disease. The Disease of it self is not dangerous; yet it is very unhandsome and troublesome, hindering the Patient from freedom to go and walk at will; also from Conception and convenient expurgation of her Courses.

Yet may it sometimes occasion death, if Pains, Fevers, Convulsions, or other grievous Symptoms be joyned therewith.

Also the Womb in this Case is sometimes corrupted through distemper of the Air, or by violent impulsion, and becomes Gangrenated, which necessitates it to be cut off.

The Disease being fresh, and the Womb coming not far out, is more easily cured than when it is an old Infirmary, and the womb comes far out.

In younger Women, the womb is more easily restored to its place than in Elderly Women.

Falling down of the womb, by reason of the Ligaments being broken, is incurable.

CURE.] To come to the Cure. The womb is to be thrust back into its Natural place, and to be detained there; and the fault of its Bands or Ligaments must be corrected; If they be broken, by things that do glue and solder together; if they be relaxed or slackened, with things drying, astringent, and strengthening. All which may be done by the following Medicaments.

In the first place therefore, That the womb may more easily be restored to its place, the Guts and Bladder must be disburdened, lest pressing the Neck of the Womb, they should hinder its reduction; forasmuch as the neck of the Womb rests upon the straight Gut, and the bladder rests upon the neck of the Womb.

When the Guts and Bladder are discharged of their Excrements, let the woman lie along upon her Back with her Thighs wide asunder, and her Knees drawn upwards, and let her with her hands thrust her Womb inwards; and force it still upwards into the neck, so as to turn it inwards as it goes, till all is returned within the Cavity of the Belly which should contain the womb. Or if she is not able to do it her self, let her do it by help of the midwife; or use a thick blunt ended stick with Cloaths wrapt about it, by which it may be forced further into the Cavity of the Belly, than is possible by the hands to drive it. Or, for fear of hurting her Body, a Pessary may be made of Linnen Cloth often doubled and rowled together with a string tied fast thereunto, and accommodated to this service of thrusting up of the womb.

But if the womb fallen from its place shall swell, so that it cannot enter into the Cavity of the Belly, the swelling must in the first place be removed. And if there be Inflammation, such things must be applied as are fit to heal the same. If otherwise it be blown up, such things must be used

as will discuss the inflation. *Rodericus a Castro* washes the swollen womb with a Decoction of Beets, and then sprinkles it with Vinegar and Salt, and so when the swelling is abated, he reduceth the same.

The same *Rodericus a Castro* writes, that it is very good towards restoring the fallen Womb, for a Physitian or a Chyrurgeon to come with a burning red hot Iron in his hand, and to make as if he would thrust it into the womb. By that means Nature contracts her self, and the womb with her, and any other part that sticks out of the Body. For he relates that a certain very expert Chyrurgeon did by this stratagem force back a mans Guts, that were ready to come out at a wound in his Belly, when other remedies did no good. For holding a great red hot Iron in his hand, the Patient looking on, he made as if he would Clap it upon the wound. With the sudden fright whereof the Guts were presently drawn back into their place.

Avenzoar in his Second Theizir, Tract. 5. Chap. 4. propounds some such things as this. When this Disease (saith he) begins first to appear, the Physitian may gently cure the same. And it is reduced all these ways, viz. by your hand if you please; and if not, make her lie on her back, and let some body sit upon her brest, and another upon her thighs; and then cause her to be frightened putting some creeping Vermin upon her Leggs, such as Mice, Efts, frogs and such like; by which let her be so frightened as to endeavour to get away by drawing her Leggs and Thighs up to her; whereby all her Members and her whole Body may at once be contracted: by which means the womb will return unto its own place.

Zacutus Lusitanus following *Avenzoar* relates the following story in the 66. Observation of his Second Book. Coming to a woman (saith he) which had her Womb fallen down the space of a year and an half, with extream hardness; it seemed very hard by reason of its stretching out, to be reduced to its place: especially seeing *Avenzoar* says, that this work must be done before the womb be grown hard. I devised many remedies for this Disease; astringent Infusions, Pessaries, Plaisters, Confections. At last, having wrestled stoutly with the Disease, and could do no good, I betook my self to this stratagem. I put Mice tied by the tails, between the womens Leggs; Which running up her Thighs the woman was mightily frightened, and forthwith (a strange thing to see) her womb was reduced into its proper place. This done, The Plaister against Ruptures being laid upon the Region of the womb and to the Groyns, she remained for the time to come free from that Disease.

Before the womb be repoted in its place, it must be anointed with the Mucilage of Comfrey-Roots, or with an infusion of Gum Tragacanth. Then are powders to be sprinkled thereupon, which have no asperity or sharpness, lest they hurt the Womb or its Neck; but of quality rather gluing than astringent or binding. Such an one may be thus made.

Take Frankincense, Mastich and Sarcocolla nourished (that is, well steeped so as to drink up as much of the Milk as it can hold) with Breast-milk, of each one dram: Mummy, Gum arabick, Acacia, Hypocistis, of each half a dram. Make all into a most fine Powder, to be sprinkled as aforesaid.

The same Powder may be applied in form of an Oyntment, if it be mixed with the aforesaid mucilages, or Oyl of Saint-Johns-wort, or some other consolidating thing.

After the Womb is conveniently re-placed, all art must be used to retain the same in its place, the woman lying in her bed, a little bending, with her Thighs gently stretched out, and the one resting upon the other. And let her abide some days in this posture, and put in at the Water-gate a little Wool, Cotton, or Sponge wet in harsh red Wine or in Rosewater, wherein Acacia or Hypocistis hath been dissolved.

To further this Retention of the womb in its place, Cupping-glasses with much flame are frequent to be fastened under her Dugs and upon the Navil.

Likewise sweet savours are to be presented to her Nose, and stinking things to be applied to her Genitals, unless she be subject to fits of the Mother.

Let the said parts be fomented with a Decoction of Astringent things made in red Wine and the Water of a Symths Forge.

Also Practitioners use a Bath to sit in, made of the same Decoction: In which there needs caution. For it is to be feared, lest in that posture, the womb should again fall from its place, especially at the beginning, while the Disease is yet fresh. But when it hath held the Patient long, and she is provided of a convenient kind of Truss, such a Bath will do much good.

After the said Bath a Fumigation will likewise be very good, of Frankincense, Mastich, Sandarach, red Roses: Others indeed do commend a Fumigation made of salted Eel-skins.

Injections into the womb will work much more effectually than those remedies which are outwardly applied; they may be compounded of the Decoction for the Fomentation or Sitting-Bath aforesaid.

Oyntments and plaisters will likewise be good in this case, such as were described in the Immoderate flux of the Courses and in the Whites; and as shall hereafter be propounded to prevent Abortion.

The

The Retention of the Womb in its place may likewise be holpen, by astringent and strengthening Medicaments taken in at the mouth. And among the rest, the following powder frequently taken is very proper for this disease.

Take Mullein two drams: Myrtle Leaves, Garden Parsnip Seeds of each one dram: Shavings of Harts-horn, half a dram: Ashes of Cockle-shells one dram: red Coral two drams: Make all into a Powder. The Dose is one dram with harsh red Wine.

Touching these astringent Medicaments both internal and external, it is to be observed; that they must be warily used, if the womans courses do still flow at their seasons, lest they being suppressed may cause more grievous Diseases to follow. The best season for these Medicaments, is when the Patients courses are past.

These Remedies are to be continued twelve or fifteen days together. Also care is at the same time to be taken, that the Patient be neither costive nor loose. For if the Excrementitious be hard, the womb is easily thrust out, by the Patients straining at stool; and a loose Belly doth relax or slacken the bands or Ligaments of the Womb.

While the aforesaid Remedies are used, we must resist the Antecedent cause, by such things as shall purge out and discuss those flegmatick Humors which relax and slacken the Ligaments of the womb.

And the first convenient Purgations must be ordered; which must not be violent in the operation and disturbing, lest they cast the Womb out of its place again, bringing abundance of Humors into those parts.

Some allow of vomiting, because it draws the Humors into the upper parts of the Body: and in that respect it would be profitable, if it were not to be feared in another regard: Namely, because it is performed with great straining, and drives the womb downwards, as much as neezing. Yea, and experience hath taught that nothing doth more effectually facilitate hard Travail, and bring the Child sooner into the light, than a Vomit given to the Childing woman.

After sufficient Purgation, a Decoction of Guaiacum is to be given three weeks together, that every day the Patient may sweat in the morning. And in the Evening let her Belly beneath the Navel be fomented with a Decoction of Sage, Origanum, Marjoram, Thyme, Feverfew, Tansie, Worm-wood, Rue, red Roses, Cyprus-Roots, Calamint, Cypress Nuts, and the like simples boyled in Smythes Forge-water and red Wine. After the Fomentation, the Fumigation and Liniment may be used which were before described.

Instead of a Sweat-driver, or after the use thereof, Baths arising from Sulphureous Mines, will be singularly profitable, such as our Balerucan Baths; and experience hath shewn that many have been cured by such Baths.

And that a woman may be secure that her womb fall not down again, which it is very apt to do; or if there be no hope of a perfect cure, let her wear such a kind of truss as is called *Hypocrates* his Girdle. Whereby women are so guarded and defended, that without fear of the falling down of their Wombs they may go about and do their daily businesses; also their Womb is thereby defended from the cold. They are made almost after the same manner, as trusses that are used against Ruptures or Burstenness.

Pessaries are likewise very profitable in desperate fallings down of the Womb, which some do make of a good long piece of Cork covered over with Wax. Others make them of Wax alone, some round, others square, triangular, oval or other fashion; which are conveyed into the Cavity of the Womb, and are never taken out, but keeps the womb in its place; so as the woman notwithstanding do all their usual employments conveniently, are enjoyed by Men in carnal conjunctions, do conceive, carry their bigbellies, and bring forth. Which is confirmed with many Examples by *Franciscus Rossetus*, in his Book entituled *De Partu Cesareo*, Sect 6. Chap. 5. and by *Bauhine* in his Appendix to *Rossetus*. All which are transcribed word for word by *Schenkius* and *Sennertus* in their proper Chapters, where they are to be seen.

CHAP. XIV.

Of the Womb shut up, or Imperforated.

Virgins that have their Wombs closed up are said to be imperforated, or unboarded, like a Barrel of Beer that hath no hole to put in a Spigot. Now this Closure of the womb is wont to be in three places; viz. In the inner Mouth of the womb, in its Neck, and in the outward mouth of the womb next the Water-gate.

CAUSES.] It is caused, either in the first formation of the Infant, when some Membrane is drawn before the mouth of the womb, or its neck; or by some precedent wound or Ulcer, which growing whole again, the parts of the neck of the womb, or its lips, come to be closed together; or by Tumors shutting or stopping up the inner Orifice; or by some compression, straitness, or distortion, which hinders the mans Yard and seed from going in, and the Monthly Purgations from coming out.

This

DIAGNOSTICK.] This Disease is in part easie, and in part hard to be known. If the closure or stoppage be in the outward Orifice of the Privity, it is discerned by seeing and feeling. But if it be in the neck or Mouth of the womb, it is not discerned till the courses begin to break out, or till the parties begin to addict themselves to generation. For when the time of their monthly Pur-gations is come, pains and gripings are felt in the Region of the womb at certain periods of times, with a sense of weight, yet no flux of Courses follows; the Conjecture will be more probable, if the Virgin be of a good habit of Body, not troubled with any Obstructions, or Cachectick dispositions. The Disease persevering, their womb swells, so that Maidens seem to be with Child; and sometime their whole Body swells, which likewise seems as it were black and blew through the abundance of blood. But if the closure do possess the neck of the womb, it is perceived in the first Carnal Con-junctions, because it doth not admit the Mans Yard.

Lastly, If the Closer be in the Orifice or Mouth of the womb, it is hardly discerned; yet may it be in some measure perceived by the hand of a skilful Midwife; and it gives some suspicion thereof when the mans seed doth presently slip away, as soon as it is cast in.

PROGNOSTICK.] As for the Prognostick. If the Closure be in the Orifice of the Pri-vity, it is easily cured, being opened by a slight Section. But if it be in the inner parts, it is much harder to cure.

When the Passage is stopped with a Membrane, its more easily cured: but when the closure is cau-sed by a fleshy matter, as it happens after Ulcers, the Cure is more difficult.

The Closure of the inner Orifice of the womb is incurable, because the Instruments of Chyrurgery cannot be applied to open the same.

CURE] The Cure of this Disease, because it belongs chiefly to Chyrurgery, we shall dispatch in few words.

If the Closure of the womb have been caused in the first formation, it is to be opened by cutting only. The manner of which cutting is largely described by *Sennertus*, in its proper Chapter.

But if the Closure have been occasioned by reason of an Ulcer, as it happens in the Whores Pox; it is to be considered, whether it be only an excrescence of flesh not wholly stopping the passage, or a perfect and entire growing together of the sides of the neck, or of the Lips. For, if flesh only be grown up, endeavour must be used, convenient Evacuations being premised, first to prohibit the en-crease of that flesh by drying and discussing Medicaments, then to diminish the said flesh by Medi-cines of Frankincense, Birthwort, Bark of Frankincense, Roses, Balaustines, Mastich, Myrrh, Aloes, and such like. Which not doing the deed, we must come unto such flesh-consumers as are least painful, as burnt Allum, *Unguentum Aegyptiacum*, and such like. And at last, if this will not consume the flesh, it must be cut off round about, with the same Instrument wherewith the superfluous flesh breeding in the Nose, called *Polypus*, is wont to be cut off. But if the neck of the womb be wholly grown together, we must try to renew the Ulcer, and with the foresaid Medicaments to remove the superfluous flesh. And if that cannot be, we must undertake to cut it, in the very self-same manner as we are wont to cure the natural coalition of the neck of the womb.

If the passage of the womb be shut up by some Tumor, proper Remedies are to be appointed there-unto; such as have been propounded in the Inflammation, Schirrhus, and Cancer of the womb.

If it be caused by compression of the neck of the womb, or of the inner mouth thereof, the compres-sing cause is to be taken away, which may be divers, *viz.* A Stone in the Bladder, a swelling in the streight Gut, Fatness of the Caul, the Legs or Thighs distorted, and going asplay; the Cure of which accidents see in their proper place.

In streightness of the Passage, which is chiefly caused by hardness or dryness, we must work with things moistening, Emollient and Laxative; with Baths to sit in, Fomentations, Liniments, and Pes-saries; and so when the part is relaxed, a little pipe of Lead may be put in, or of white wax artificially contrived, and smeared with Butter, or some Emollient Oyl, which let her always carry, or at least in the night when she goes to bed, and in the day time let a Pessary conveniently made of Cotton be put in the place, being smeared with Oyntment of Marshmallows, or such like.

In Distortion, the same Method of Cure, very near, is to be observed; and let the pipe be so fra-med, that it may gently bow the contrary way to the distortion; and so the neck of the womb may by little and little be reduced to its due place.

Chap. 15. Of Barrenness.

THis word *Barrenness* or *Sterility*, is not in this place taken in so strict a sense, as to signifie only a total defect, and perfect abolition of Conception; But in a large and ample signification, so as to comprehend all kind of impotency, and every impediment of Conception: Namely, when a woman at such an Age in which she ought naturally to be capable of Conception, and using the com-pany

pany of a man, doth not conceive. And this defect is termed *Agonia*, or *Atecnia*, that is, Inability to conceive or bear children.

CAUSES.] And this Barrenness or Impotency of Conception is caused divers ways; all which for clearness sake, we may reduce to four Heads, according to those four Natural Operations which are required to perfect Conception.

The First of which is, That the Woman in her Genial Embracements do conveniently receive the Mans Sperm into her Womb.

The Second, That she retain the same a convenient season.

The Third, That she cherish and preserve the same in her womb.

The Fourth, That she afford fitting Materials to form the Embryo or first Conception, and duly to augment the same, as need shall require.

Hence Four Impediments of Conception do arise; viz. If the Woman receive not the Seed; If she retain it not; If she preserve and cherish it not; If she nourish it not so as it encrease and grow.

Reception of the Seed is hindered by many Causes; by things Natural, things not Natural, and by things Preternatural. Among things Natural hindering the Reception of the Sperm, in the first place is reckoned, youngness of Age, in which, by reason of the smallness and straitness of the Genital Parts the woman cannot receive the mans yard, or not without very great pain, which makes her worse for Genial Embracements. The same effect is caused by over-great Age, seeing that in elderly Virgins, the Genital Parts, through want of being exercised in actions tending to Generation, do become withered, flap, and flaggy, and so strait that they cannot afterwards easily admit a mans Yard. Likewise, all such as are naturally lame, with distorted Legs, and their Crupper-bone depressed, can hardly put themselves into such a convenient posture during the genial Embracement, as is necessary that the Seed may be duly and rightly received. Hereunto add over-great fatness, which straitens the Passages of the womb, and by greatness of the Belly, hinder the right and fit Conjunction of the man with the woman. And lastly, a cold distemper of the Womb, makes women dull and lustless, so that they enjoy no pleasure (to speak of) in the genial Embracement, or it is long before they are provoked with desire; so that the inner Orifice of the womb is not timely enough opened to receive the Mans Sperm.

Among things not Natural, Passions of the mind hold the first rank, and especially hatred between Man and Wife; by means whereof, the Woman being averse from this kind of pleasure, gives not down sufficient quantity of Spirits, wherewith her Genitals ought to swell at the instant of Generation, that her womb skipping as it were for joy, may meet her Husbands Sperm, graciously and freely receive the same, and draw it into its innermost Cavity or Closet, and withall bedew and sprinkle it with her own Sperm, poured forth in that pang of Pleasure, that so by the commixture of both, Conception may arise.

The things Preternatural, which can hinder the Reception of Seed, are certain Diseases incident to the Genital parts, or to such as border near upon them; as Tumors, Ulcers, Obstructions, Astrictions, Shutting up, Distorsions, Stone in the Bladder, and other such like.

The Second fault in Women, which hinder Conception, (viz. When the Seed is not retained) depends either upon the over-great moisture of the womb, Namely, when the womb is filled with many Excrementitious Humors, by which becoming looser and more flaggy than is fit, it doth not lightly purse and contract it self together, so as to retain the Sperm; or the Orifice of the womb is so slack that it cannot rightly contract it self to keep in the Seed, which chiefly is caused by Abortion, or hard Labor in Child-birth, whereby the Fibres of the womb are broken in pieces one from another, and they, and the inner Orifice of the womb over-much slackned. And that same immoderate moisture may arise both from the proper Constitution of the woman, and from external causes of moisture, such as Baths, Idleness, moist Diet; and especially from the Whites, which flux of Whites happens very frequently, since the womb is as it were the Common-shore, whereinto all the parts of the Body do discharge their Superfluities, so that this is wont to be the most frequent and ordinary Cause of Barrenness.

The Third Cause hindering Conception, (viz. When the Sperm is not sufficiently nourished in the womb,) depends upon such things as are apt to corrupt the seed, as every distemper of the womb, Namely, a cold distemper, which extinguisheth the Seed; an hot distemper, which dissipates the Spirits; a moist distemper, which robs the Seed of its due thickness; and a dry distemper consumes and drinks up the Seed and thus the Seed being by these distempers corrupted and degraded from its natural Constitution, becomes unfit for Conception. To these Causes, Authors do add Witchcrafts, and Charms, by which all confess that Conception may be hindered. Likewise external things, as Meats and Poysons may do as much, such as are reckoned up by Authors, viz. Among Meats, Vinegar, Mint, Water-Cresses, Beans, and such like; and among Poyson, or at least such things as have a certain venomous property causing Barrenness, The Agat or Jet, the Matrix of a Goat

Goat or Mule, Glow-worms, Saphires, Smaragds, and the like. And lastly, Malignant and venomous Diseases, may exceedingly corrupt the Seed, and render it unfit for Generation, as the Consumption, Leprous Infections, Whores-Pox, stinking and cancerated Ulcers.

The Fourth and last Cause of Barrenness, (viz. When the woman doth not yield convenient matter to form the Conception, and to augment the same) depends upon a want of Seed and Menstrual blood; so over-young women and over-old do not conceive, through want of both those Materials. The Age of a woman fit for to conceive, is commonly determined to be from the fourteenth to the fiftieth year of her Age. Yea, and though those foresaid Materials are not wanting, if yet they are ill disposed, they are not fit for Generation. And they may be ill disposed through divers distempers, and other Diseases; likewise by reason of bad Diet, producing none of the best blood. So women which gorge themselves with much raw fruit, and cold small drink, breed wheyish blood unfit for Generation: yet we must needs confess, that some women have conceived who never had their Courses, as may be collected out of the Observations of divers Authors; yet so much Menstrual blood was collected in those women, as useth to remain over and above in such as have their Courses, though they had not so much as to cause their monthly Courses.

To the Causes hitherto mustered up, must be added a certain disproportion or unsuitableness between the Mans Sperm, and the Womans, which makes they cannot be rightly mingled, nor conspire to the joynt-making up of an Embrion or Rudimental Infant; though there be in the mean while no sensible defect either in the Man or Wife. And it sometimes happens, that the same man can have a child by another woman, and the same woman by another man; whereas they have lived together in the married estate barren. It comes likewise to pass, That a woman shall live with a man for ten or more years together, and not conceive with child, and afterward shall begin to conceive and bring forth: the Cause of which accident is, The change of Temperature caused by years, whereby the Seed comes to have another temper, so that being before disproportionate to the mans Seed, it comes by change of Age to be fitly proportioned thereunto. Now this disproportion of Seeds, consists chiefly herein; when men much exceeding in some quality belonging to their temper, are joyned with women which partake of the self-same excess, viz. When over-hot men are joyned with over-hot women, over cold men with over-cold women; for those distemperatures can procure no mediocrity in the Seeds, and other causes necessary to Generation. Some fly likewise to occult or hidden qualities, which make the Sperms to agree or disagree, though no excess of the first qualities can be discerned.

To these, Authors add a sudden kind of Disposition, which makes some women barren, though no manifest cause of such Barrenness appear in them.

SIGNS. The Signs of Barrenness we will run over according to these four sorts of Causes propounded.

And in the first place, Causes hindering Reception of Seed, are not hard to be discovered, being evident to our very Sences. For tenderness of Age is easily observed, and so is an over elderly state of years; and the evil constitution of those parts which border upon the womb, as when women halt, have crooked wreathen Legs, have their Crupper-bone depressed, or are over-fat; as for the cold distemper of the womb, we shall treat of that in our third rank of Causes. Hatred between man and Wife is known by relation of themselves, or those that live with them. Also the particular Diseases hindering the reception of Seed, as Tumors, Ulcers, Obstructions, Astrictions, shuttings up, Distorsions, may be known through search of the Genital Parts made by a Midwife or Chyrurgeon.

Of the Causes hindering the retention of Seed, which make the second rank, we shall treat of over great moisture among those of the third rank; as for abortion and hard travel, they are known by the womans relation.

The Causes of the third rank, viz. Which have power to corrupt the Seed, do require more exquisite signs to know them by, which we shall prosecute as followeth.

A Cold distemper of the womb, is hereby known, In that the woman longs not after Carnal Embracements, and feels little pleasure therein; her Face is soft, whitish, and cloudy; her feeling is dull about her share, Loyns, and Thighs; she voids thin and crude Sperm, and with little pleasure; her Courses are suppressed, or they come very sparingly, and keep no constant orderly time, and they are pale and discoloured. Add hereunto, Diet preceding of a cooling nature, consisting of a long use of Fruits and Herbs, with much drinking of cold small Drink.

A moist distemper of the womb is known by the lax, and flap, flaggy, soft habit of the womans body, her much sitting, frequent and almost continual flux of Whites; plenty of Courses, thin and watery, no appetite to fleshly Conjunctions, heaviness of her Loyns, aptness to miscarry, plenty of Urine, and a moist Diet.

An hot Distemper is known, by the manly and strong habit of the womans Body, such as is seen in Viragoes and Amazons; by a ruddy countenance, black hair of the Head and Eye-brows; a strong

and manly voice; she is frequently disposed to be angry, over-prompt to all kind of actions; her thirst cannot be satisfied, her Urine is yellow, her Courses few, their colour is a dark red, their heat and acrimony great, that oftentimes they exulcerate the secret passages; their Privities itch, and they are prone to carnal embracements; they are quick and sudden in the voiding of their Seed; they have frequent pollutions, and lustful dreams.

A dry distemper of the womb is known by the small quantity of the Courses, dryness, itching, and chopping of the mouth of the womb, little excretion of Sperm in the Genial Embrace; trouble arising from over-much carnal conjunction, and leanness.

If the Seed be corrupted, and barrenness caused by Witchcraft, all other signs will be absent, which are wont to declare the natural and manifest causes of barrenness. There will be likewise some alienation of minds between the married couple, of which neither of them can give any handsome account: Yea, and sometimes they can both of them, but seldom shoot forth their seed, and that with labour and difficulty.

Diet or poysons that extinguish Seed, if they have been taken in, we shall come to knowledge thereof, by diligent questioning of the woman, and those that are about her.

And lastly, Malignant Diseases, such are of power to extinguish the Sperm, as Leprous Manginess, the Whores Pox, and such like, are known by their proper signs.

The fourth Cause of Barrenness, which consists in defect or badness of the Menstrual blood, is known, first by the over-great fatness of the whole body, to the nutriment whereof the blood is carried away, and consumed, and is not allowed for the nutriment of the child in the womb. The same is likewise known by great leanness in the body, and extream slenderness; for when there is not blood enough to nourish the body, it can hardly superabound to nourish the Conception.

And in a word, all such things as consume, and much diminish the blood, if they have preceded, or be at present in the Patient, they signify want of blood in her body; such as extream labours and pains-taking, immoderate sitting up and watching, austere fastings, large bleedings at nose or elsewhere, acute or chronical Fevers, Fistulous Ulcers, and Issues that run much.

Sometimes likewise, over-great quantity of blood doth hinder the nourishment of the seed, and of the Conception: for the seed is oppressed with so great plenty, and cannot exercise its formative faculty; which is wont to happen in full-bodied and ruddy women, such as live a jovial life, and delight in Feasting, whose wombs always are bedabbed with a continual moisture.

Now the ill disposition of the womans blood, may be known by the ill habit of her body, the colour of her Courses, and other strange dispositions, together with an ill Diet foregoing.

The disproportion of the Husband and the Wifes Seeds, is hardly known; but if both of them be of a very hot or a very cold constitution, we may conjecture, That the disproportion ariseth from those distempers, if other more manifest causes of Barrenness do not appear.

It is yet harder to discover that kind of Barrenness which depends of a certain hidden disposition, no manifest causes thereof appearing. Yet many experiments are related by Authors, whereby to know whether a woman be naturally barren; which though they carry no great certainty with them, yet are Physicians necessitated sometimes to make use of them, in favour of Princes and Nobles, who are permitted to divorce their Wives in case of Barrenness.

Hypocrates in Aphor. 59 Sect. 5. saith, *If a woman conceive not, and thou wouldst know whether she shall conceive or not, cover her with blankets, and burn some perfume under her, and if the smell proceed through her body up to her nostrils and mouth, know that she of her self is not barren.*

The same *Hypocrates* supposeth that it may be known whether a woman be fruitful or not, by putting a head of scraped and peeled garlick into her womb; for if the next day the smell shall come into her mouth, she is apt to conceive; if not, she is barren.

Or put *Galbanum* softned at the fire, and inclosed in silk, into the womans womb at night, and bind her whole head in perfumed Linnen; if in the morning the crown of her head shall smell of *Galbanum*, the woman is well purged, and will be fruitful.

You may try the same, If you put a little Balsom mingled with water, and received in Cotton, into the womb, binding it with a string to her Thigh; for if the womb do draw it inwards, it is a most approved sign of fruitfulness.

Amatus Lusitanus commends this following as a most true sign: He takes a dram of a Hares runnet, which dissolved in warm water, he gives the woman to drink, being in a Bath of hot water, and fasting. If the woman do then feel pains in her belly, he pronounceth her fruitful; if not, barren.

Many seek to know the barrenness of a woman by her urine, wherein they steep barley: which barley, if it grow within ten days, they count it a sign of fruitfulness; if not, they account it a certain token of barrenness.

And others (finally) do pour the womans water upon Bran or Fenugreek, and take it for a note of barrenness if worms breed there.

For a conclusion to these discoveries, we shall diligently consider and enquire, Whether Conception and Generation be not hindered by fault of the man, or any deficiency in him. For in such a case it were vainly done to torment the woman with a multitude of Medicines. Barrenness proceeding from the man, may be known by the diseases of his Genital parts, as inability to raise his Yard, want of Sperm, swelling of the Stones, Gonorrhœa, and the rest. And it gives some token hereof, if the man be faint-hearted and womanish by nature, if he want a beard, be slow in casting forth his Sperm, and his Sperm be cold, so that his Wife feel it cold in her Womb; if he have but little or no lusts to carnal imbracements, and perceive very little pleasure therein. And lastly, if such causes have preceded, which are of power to make the Seed unfruitful.

PROGNOSTICK.

The Prognostick must be regulated according to the method of the Causes, as we have ranked them.

And in the first place, tenderness of age hinders conception only for a time, which cannot be expected till the woman is more grown. But elderly years cause a total despair of Conception. But if the parties courses do as yet proceed in due season, there may be yet some hope of Conception; howbeit very small, especially in such women as are at the fortieth year of their age; for although women that have had children younger, are likewise wont to conceive at that age; yet such as have never been with child, have little reason to hope that they shall conceive at that age, because the Womb having been so long unmployed, is become withered, shrunk up, and unfit to Conceive with child.

Barrenness which is caused by an evil shape of the Members, as in such as are lame, have distorted thighs, or their Crupper-bone depressed, is incurable.

But if barrenness proceed from over-fatness, or some distemper of the womb not over old, the cure is to be hoped, by procuring leanness, and by correcting the Distempers.

That barrenness which is caused by other diseases, as by a Swelling, an Ulcer, obstruction, whires, want of the Courses, falling of the womb, Consumption, Leprous Manginess, Whores Pox, and such like, is easier or harder to cure, according as the said diseases are either easier to be cured, or hard.

CURE.

For the Cure of this disease, which soever of the causes aforesaid hath procured the same, we must seek the removal thereof.

And in the first place, the straitness of the Genital parts in regard of youngness of age, needs no cure; for as age encreases, they attain a convenient wideness: but in the mean time it is necessary that the party abstain from carnal conjunction: because the over-soon use thereof, doth spoil the natural constitution of those parts.

Barrenness which is caused by lowness of stature, or elderliness of years, is incurable; yet endeavour may be used to help the same, by emollient and relaxing Medicaments, provided the Courses, do still flow.

Over-great Corpulency must be corrected by an extenuating diet, and convenient evacuations.

If barrenness seem to arise from a bad course of diet, as in persons given over-much to belly-cheer, to Wine, or small Drink, such women are to be reduced to an exact Course of Life; and all excess of Eating and drinking must be avoided.

Viragoes and strong constitution'd women, such as come near to the nature of Men, that they may be rendred fit for conception, must by all the art possible be effeminated, and reduced to such manners as become their sex; all meats of grosser nourishment being forbidden them, and all labours and exercises; their Courses being made conveniently to flow, by plenty whereof they may be abated of their manly courage, and grow soft and gentle. And if their monthly courses shall not suffice to that end, their Humors must be diminished by frequent Blood-letting and purging; and by frequent bathing and alterative remedies, the whole habit of their bodies must be moistened and cooled.

If Barrenness be caused by the closure of the womb, by distortion, by obstructions, by Tumors or Ulcers; all these must be remedied by such Medicaments as are propounded in those Chapters which treat of their respective Cures.

Barrenness depending upon an hidden property in the woman which is natural to her, is incurable, and therefore it ought diligently to be inquired after, lest remedies be applied in vain.

If Barrenness come by witchcraft, Charming, or hidden powder of Medicaments, there is little place for Physick; but the party must have recourse to prayers and supplication, which being zealously poured forth by men eminent in piety, do procure help from the Almighty.

Howbeit against Medicines which by a secret power do cause Barrenness, a certain Amulets are propounded by Authors, which have a peculiar vertue to resist the malignity of such Medicaments. Cardan will have it, that the Pizzel of a Wolf worn about a woman, will frustrate all such Incantations

Incantations and Fascinations. Others do much commend the Adament and the Hyacinth Stone; The Ancients called Saint Johns-wort, the Devil-driver. The same vertue is likewise attributed to the Squil or Sea-Onion, to Eryngus, Sagapenum, Rue, and other things, being worn by Man and Wife. Also certain it is, that for the parties concerned, to endeavour confidently to despise and slight all Charms and Witchcrafts, is very profitable in this Case. Also (if the Author of the Witchcraft be not known) it is good for them to change their Habitation, and to forsake their Houses, Beds, wearing Cloaths, and other Household-stuff, wherein the Charms are oftentimes concealed.

If an hot distemper be the cause of Barrenness, the same Cure is to be used, which was described in the hot distemper of the Liver. But if the Excess of heat be yet more violent, recourse must be had to those things which have been described in our Chapter of Womb-fury. But the Camphire must be left out of those Medicines, because it is held to be a very great Enemy to fruitfulness.

Extream dryness hindering Conception, must be cured by a restorative Diet; and if the Consumption of the flesh be much, we must have recourse to the Cure of an Hectick Fever, viz. Use of Milk, frequent Bathing, and such like.

But the most frequent cause of Barrenness is a cold and moist distemper of the whole Body and of the Womb, which is often accompanied with the Whites, whose particular cure must be fetched from its proper Chapter. But the following Medicaments may be peculiarly applied to these distempers, which by a discreet Physician may be varied, so as to make them more heating or drying, according as moisture shall the more offend.

And in the first place flegmatick Humors abounding in the Body are to be evacuated by purging, Diuretick and Sudorifick Medicaments. And certain Revulsions are to be made, by Issues in the Arms, Neck, or Thighs. Also the principal parts are to be strengthened, with Treacle, Mithridate, Tablets, or Lozenges of Aromaticum Rosatum, Confection of Alkermes and such like. Also Purgations must be repeated at certain distances of time, if evil Humors do seem to abound.

Afterward we must proceed to such things, which do by a peculiar vertue or specifick property strengthen the Womb, help Conception, and procure desire of fleshly Imbracements, of which kind of Medicaments there are innumerable forms described by Authors. We shall in this place chuse out the principal and set before you.

And in the first place, An Electuary may thus be made.

Take Roots of Eryngus and Satyrion candied or preserved, of each one ounce; Green Ginger candied, half an ounce: Filbert Kernels, Pine-Kernels and Pistachio's of each six drams: one preserved Nutmeg; Seeds of Rocket and Water-Cresses of each two drams; Ashes of a Bulls Pizzle, the Reins of the Sea Scinkos, and shavings of Ivory, of each one dram; Confection of Alkermes three drams. The Powders Diambra and Diamoschu Dulce, of each one ounce and an half: Amber-Greece half a dram; with Syrup of preserved Citrons make an Electuary, of which let her take the quantity of a Chesnut, at her lying down to sleep, twice or thrice in a week, drinking a small draught of Canary-Sack or Hypocras, after it.

In the form of a Powder, the following Medicaments may be administred.

Take Seeds of Rocket, Siler Montanum, of each half a dram: shavings of Ivory, Cinnamon, Nutmegs, of each a dram, Musk (in such as can away with it) three grains; White Sanders three drams. Mix them and make of all a Powder. The Dose is one dram in Canary. Or,

Take Seeds of Rocket, wild Parsnep, Cinnamon, Powder of the Nutmeg, Electuary Diambra and Diamoschu, of each one dram: the Matrix of an Hare, a Bores stones, a Staggs Pizzle, Cloves, of each half a dram; Musk and Amber-greece, of each six grains, Sugar the weight of all the rest. Mingle them, make them into a Powder, whose Dose is two drams with rich Canary.

The Afterbirth of a woman is believed to be of great efficacy, being dried and powdered, and taken the quantity of a dram.

Some reckon as a secret the Powder of the Liver and Stones of a Boar Pig which the Sow his Mother farrowed alone without any Brothers or Sisters by him. This Powder they say cures Barrenness both in men and women.

Mathiolus in his Comments upon Dioscorides cries up the Seed of the Herb Amy, in these words; The seed of the true Amy, which is brought from Alexandria, does exceedingly help the Seed. For if it be drunk a drams weight in a morning in strong Wine, or in broath of flesh, being finely powdered, every other day three hours before Meat, it gives great hopes of Children. But the Man must have to do with his Wife only on those days in which she does not take the Seed.

In such women whose bowels are apt to be inflamed, the shavings of Ivory will be very good, taken to the quantity of a dram in Whitewine, four or five days together, after the monthly Purgation.

The Essence of *Satyrion*, described by *Crollius*, is most excellent in this case, if it be given from a scruple and two scruples, to a dram, in a Cup of Muscadine.

Salt of the said *Satyrion* is also very effectual, given to the quantity of ten grains in Muscadine after the Courses.

Divers Decoctions are wont to be made to the same intent. The most effectual are these which follow.

Take *Eringo Roots* one ounce: *Mugwort*, *Nep* of each a handful. Boyl them in *Whitewine*. Give a Cup of the Decoction morning and Evening with a dram of *Tryphera Magna*, made without *Opium*, nine days together.

Quercetanus highly commends this that followeth:

Take of the Stones of a Ram prepared with Wine and dried, the Matrix of an Hare prepared after the same manner and dried; Mace, Cinnamon, Cloves, with Ginger, seed of *Ameos*, of each two drams; Saffron a dram and an half: Hazel nut Kernels and Pistachios, of each three drams. Beat such of these as require beating, and boyl all in a quart of Muscadine till a third part be consumed. Let her take three or four ounces of this Decoction in a morning three hours before meat, and that three days together; and upon the fourth let her lie with her Husband.

The distilled Water following, is likewise very effectual.

Take of Cinnamon, Cloves, Nutmeg, Mace, of each an ounce: Cubebs, long Pepper, Galanga, Zedoary, Seeds of *Ameos*, Seseleos of each half an ounce: Juniper-Berries one dram: rich white-wine, Rosemary Water, Marjoram-water, Balm water of each as much as shall suffice. Let them digest together six days, and then distil them, and give of the stilled Water morning and evening two or three spoonfuls.

Pena and *Lobellius* propounded as a Secret not to be communicated to any living Creature, the distilled Oyl of the smaller and more delicate sort of sweet Marjoram, mingled with the Runney of an Hare, and a little Musk, to facilitate Conception.

If a woman upon the fourth day of her monthly Purgations, shall drink about half a pint of the Juyce of Sage with a little Salt, and a quarter of an hour after submit her self to the Genial Embrace-ments of her Husband, many grave men affirm, she will undoubtedly conceive. With which Medicine, *Aetius* testifies that the Egyptian Women after a great mortality by Pestilence, had abundance of Children.

To the aforesaid internal Medicaments external Medicaments must be joyned. In the use whereof, it is diligently to be observed, that before we go about to dry, bind, corroborate the womb, that the filth contained in the Cavity thereof be first drawn away and purged, let it either flow back into the noble part of the Body, or be more affixed to the substance of the womb. First therefore such things must be given as purge the womb, after this manner compounded:

Take *Diaphenicon*, *Hiera Picra*, half an ounce: Turpentine and Honey of Mercury, of each one ounce: Castorium a dram; Mix all, and according to art bring them to such a constitution as shall be fit to make Pessaries, to be put into the womb. Or,

Take *Hiera Picra* half an ounce: Agarick trochiscated and powdered, Orris-Roots of Florence, of each one dram; old Mithridate and *Diaphenicon*, of each two drams: With Juyce of Mercury, make a Pessary. Rowl it in a cloth, put it up when she goes to bed, and let her keep it two or three hours.

If the womb be very full of Excrements, a more strong Pessary must be put in, after this following Injection.

Take Leaves of Wormwood, Mugwort, Mercury and Rue, of each one handful and an half: Pulp of *Coloquintida* ten grains: Agarick trochiscated half a dram; Ginger and Myrrh, of each a scruple. Boyl all in Water and Whitewine to a pint, wherein dissolve two ounces of Honey of Roses. Let three ounces of this Liquor be injected into the womb for three days together, in the morning and when she goes to bed, after her courses have done. Then put up this following Pessary.

Take *Hiera Picra* and *Benedicta Laxativa*, of each an ounce: the pulp of *Coloquintida* and Agarick trochiscated, of each half a dram, Spicknard, Seeds of the Roman *Nigella*, Savin-Leaves powdered, of each a dram; Incorporate them with Honey of Rosemary-flowers, and include them in a piece of Silk. Make Pessaries hereof, and put one into her womb, when she is going to bed, and let it abide there two hours, and afterward wash the part with Whitewine.

To strengthen, fast, and dry the Womb, these following Medicaments may be used:

Take Roots of round Birthwort half an ounce. Lignum Aloes three drams; Cypress Nuts and Roots, of each two drams; Calamus Aromaticus a dram; Dictamnus Creticus, Winter-Savory, and Myrrh, of each one handful; choyce Myrrh, Storax and Benjamin, of each two drams and an half; Stœchados, Rosemary-flowers and Marjoram, of each one pugil; Boyl all

all in a sufficient quantity of strong Whitewine. In a pint and an half of the strained Liquor dissolve two drams of Troches of Aipta Moschata, Amber greece, and Musk, of each seven grains: Civet five grains. Make hereof an Injection into the Womb warm, morning and night, for certain days together.

Before or after the Injection, this following Fumigation may be used:

Take Troches of Gallia and Aipta Moschata, of each two drams, Storax Benjamin, and pure Laudanum, of each half an ounce, Lignum Aloes and Lignum Rhodium of each one dram; Nigella Seeds, Cubebs and Cloves, of each four scruples; Amber and Tacamahacca, of each one dram and an half: Mace half a dram. Make of all a Powder, of which with Orange-flower water, wherein Gum Tragacanth is dissolved, make little Cakes of Troches: of which, let one or two be laid upon burning coals, and let the smoak be received by a Funnel into the Patients Womb.

The poorer sort may be smoaked with Myrrh, Frankincense, Lignum Aloes, Storax, Benjamin, Cinnamon and Cloves, of each a like quantity. After the Injection and Fumigation, let the following Pessary be put up.

Take Frankincense, Mastich, of each two drams: Troches of Gallia and Aipta Moschata, of each four scruples: Bistort Roots, Cypress nuts, Shavings of Ivory, and red Roses, of each one dram: Styraz, Benjamin and Laudanum, of each two scruples; Calamus Aromaticus, and Cypress Roots, of each half a dram. Make them into a Past With Orange-flower Water; then with thin linnen cloth, make two Pessaries of sufficient greatness; one of which put up when she goes to bed; anointing the top thereof with a little Oyl of Nutmegs and Civet mingled together.

It is furthermore related of Garden-Garlick, That if it be beaten with Oyl of Spike, and thrust into a piece of Linnen made like a Pudding-bag, and so put up far within the Womb, that it powerfully brings down the Courses being stopt, and wonderfully delights the womb, and purgeth it; so that hereby many have been brought to conceive Children, who for a long time have been past all hope of ever having any.

Before the strengthening Injections and Fumigation, a Bath to sit in may be used for an hour together, before the Patient goes to bed; and it may be thus prepared.

Take Roots of Briony, Master-wort, Valerian, Orris, Enula Campana, of each three ounces; Leaves of Marjoram, Mugwort, Nep, Peniroyal, Mercury, Sage, Bay, of each four handfuls: Bayberries and Juniper-berries, of each an ounce: Boyl all, and make thereof a Bath for the Patient to sit in.

As for total Baths, such as arise from Brimstony and Bituminous Mines, are most excellent; and very many women in this Condition, do flock unto such baths as to a Sanctuary.

After bathing and Fumigation, the Share, and the space between the Privities and Fundament, must be anointed with this following Oyntment.

Take Oleum Nardinum and Moschatellinum, of each an ounce and an half: Oleum Cheirinum half an ounce; Powders Diambra and Diamoschu, of each one dram and an half; Liquid Storax one dram; Civet ten grains; Musk, Amber-greece, of each six grains; a little white Wax. Mix all, and make them into an Oyntment; Wherewith let the parts aforesaid be anointed. Within let her be anointed with Civit, or Indian natural balsom. Or let the Man smear his Yard with Civit immediately before he joyn himself.

Finally, Let Plaisters be applied to the Share and to the Loins, which let her wear continually, or at least every night, until the last week, in which her Courses are wont to flow. Let them be made after this manner.

Take of the Rowl of Emplastrum pro Matrice four ounces; of the Rowl of Emplastrum de Mastich two ounces; Tacamahacca and Caranna, of each one ounce; Powder of Tormentil and Bistort Roots, of each three ounces; Powder of Mirtle two drams; Powder of Aromaticum Rosatum four scruples; Soften them with Oyl of Quinces, adding thereto a dram of Oyl of Nutmegs, Spread it upon Leather, and shape two Plaisters, the one round to be applied to the Share; the other square for the Loyns of the Patient.

Chap. 16. Of Acute and Chronical Diseases of Women with Child.

THe Acute and Chronical Diseases of women with Child are the same in Essence or Nature, and have the same signs, with the like Diseases in women not with Child, or in men; whereof it is needless in this place to speculate thereupon, let the Reader please to look for them in their proper Chapters.

But

PROGNOSTICK. But the Prognostick of these Diseases is not the same; because in women with Child they are far more dangerous, and very oftentimes mortal. So saith *Hypocrates* in Aphor. 13. Sect. 5. For a Woman with Child to be seized by an acute Disease is deadly. For if the Disease have a Fever joyned with it, there is a two-fold danger attending the same (as *Galen* shews in his Commentary upon this Aphorism) one from the Fever, which will kill the Child; another from the slender Diet which is requisite to the Cure of the Fever, but it is not sufficient to nourish the Infant in the Womb. Or if it be an acute Disease without a Fever, as the Falling-sickness, Apoplexy, Universal Convulsion of the whole Body, the Mother and Infant cannot withstand the violence of the disease, neither can they bear such strong Medicines as are requisite to the Cure of those diseases: Yet we must know that this Prognostick is not perpetually true. For we know by the Testimonies and Examples in Authors, and by daily Experience, That many women with Child having acute diseases, escape with their lives.

But Chronical or lingering diseases, as Intermitting Agues, Catarrhs, Tenasmus, &c. do threaten Abortion, and if they cause it not, they can hardly be cured before the women be brought to bed, but do keep her company till she lie down.

Diseases Acute and Chronical in the first and last months, are more dangerous, than in the intermediate months. For in the first months, the bands wherewith the Infant is fastened to the Womb are weak, so they may easily be broken, and the tender Infant is more easily over-pressed with those preternatural Causes. But in the last months, Namely, the sixth, seventh and eighth, the Child being grown greater, requires much nourishment, which in these Diseases it is deprived of. Also the foresaid bands do not stick so fast as in the third, fourth and fifth months, in which there is less danger of Abortion. Therefore *Galen* doth excellently compare the Child in the womb to Fruits hanging on a Tree, which upon their first growing out have very tender stalks, so that they may be easily shaken off with the wind, or any other violent commotion; and when they are near ripe, they hang not so fast upon the bough, as in the intermediate spaces they did.

CURE. Likewise the Cure of the aforesaid diseases in women with Child doth remarkably differ, as touching their Diet, and those two grand Remedies, Blood-letting and Purging; whereunto we may add Medicaments which evacuate by other ways, viz. Such as move the Courses, Pils. drivers and Sweat-drivers, because it is feared lest by these evacuations, abortion may be caused: of these therefore we shall only treat at present, referring what else belongs to the cure of these Diseases to the proper Chapters, where such respective diseases are handled.

As for matter of Diet, it is not for women with Child in Acute diseases to be enjoined too spare, lest the little Infant be famished; neither is it to be allowed so liberal, that the Fever should be thereby strengthened; but we must steer a middle course with this Caution, That in the first months of their Belly-burden, a thin Diet be enjoined, and in the latter somewhat more solid and plentiful, because the Child doth then stand in need of more nourishment. Yet if there must needs be some error in Diet, it is better to err in keeping too full, than too slender a diet; for recovery is chiefly to be expected from the strength of the Mother and the Child.

Touching Bleeding, that Aphorism of *Hypocrates*, viz. the 13. of Sect. 5. is presently brought in opposition, where he says, *If a Woman with Child be let blood, she miscarries, especially if the Child be grown.* And *Galen* renders the reason in his Comment, because the Blood being let out, the Infant wants its nourishment, whence follows Abortion. On the other side, daily Experience shews, That in very many diseases of big-bellied women, especially acute diseases, as the Pleurisie, Inflammation of the Lungs, continual Fevers, and such like, blood-letting is necessary, and may be administered, not only in the first, but also in the middle months, and sometimes in the last months of a womans Belly-bearing. Which if it be omitted, both Mother and Child are in great danger of death. And to this latter Opinion the Elder Physicians assent, not dissenting from the mind of *Galen* and *Hypocrates*, by so doing. For therefore it is they held a woman would miscarry, if being with Child, she were let blood, because blood being taken away, the Child would want its nourishment. So that if blood may so be taken away, as that the Infant shall not want its Nourishment, there will be no danger of Abortion thereby.

Now so the case may stand: As first, In the first months of a Womans Belly-bearing, while the Infant in the womb is little, and wants but little Nourishment, for then its Nourishments by bleeding will not be drawn away, especially if certain signs of superfluity of blood be apparent in the mother. So that from the first month to the fifth, Blood-letting may be safely practised. But in the middle and last months, greater circumspection is to be used, because the Child being greater, and wanting more Nourishment, cannot so safely admit of Phlebotomy. Howbeit if the Woman abound with Blood, and a small quantity be taken away, she may safely be let blood, because hereby the Diseases will be allayed; neither will so much Nutriment be thereby withdrawn from the Child, as to cause Abortion. But if it seem that *Hypocrates* thought other wise, let us consider that we let blood after a far other fashion than the Antients did; they let blood by pounds, and we by ounces. The very truth is, there

is no better way to preserve women from Abortion, than by Blood-letting when it springs from over-much blood strangling the Infant, and overwhelming the same, in such women as have been accustomed out of their time of being with child to have a plentiful flux of Courses for divers days together. Thus *Petrus Salius Diversus* in his 22. Chapter of his Book of particular Diseases: *I for my part protest (quoth he) that I have preserved many women from Abortion, which they had often suffered, only by letting them blood in the first months of their being big. Neither would I have it thought, that no other kind of Blood-letting may be practised in childing-women, save that which is sparing or moderate. For sometimes plentiful bleeding in the last month hath done very much good. And I have sometimes experienced this plentiful Blood letting in the last month, when the women with Child were afflicted with a burning Fever, and were full of blood hoping, thereby an abatement of the Fevers, and an hastening of the Birth, both which I obtained by Blood-letting, and saved both Child and Mother in danger of death, by this only Remedy. Which being in some Patients omitted, and neglected by Physicians, minding more the words of Hypocrates, than the matter it self, hath been the cause that both Child and Mother hath miserably perished, being strangled by the plenty and fervency of blood. So far Salius. Amatus Lusitanus, in his 57. Cure of his 1 Section, let a woman with Child of eighteen years of Age blood in the sixth month four times with happy success, she being in a burning Fever. And Rodericus a Castro in his third Book of Womens Diseases, Chap. 21 writes, that he let a woman of Lisbon blood, who had a Pleurisie in the eighth month, and was given over for desperate by other Physicians, four times and no less, one after another, and she recovered, and had a healthy Boy. And to conclude, If I may freely relate somewhat from mine own Experience, I will set down the following History, which is a rare one, and worthy to be regarded. The wife of John Vieules, Citizen of Montpelier, had three Miscarriages one after another at several times of her being with Child: When she was the fourth time with Child, about the end of the second month, she was taken with the same pains of her Belly and Loins, which had been the usual fore-runners of her former Miscarriages. I being called to her, and considering she was a Sanguine woman, and full of blood, presently caused four ounces of Blood to be taken from her; and within half an hour the aforesaid pains quite ceased, and the woman was so well that she would not use those other Medicines which I prescribed for her to prevent Abortion. Now these Symptoms appeared in the self same time, wherein she was wont to have her courses, when she was not with Child. Again in the third month of her being with Child, at the same period of time, the same Symptoms return upon her: She sending for me, desires I would order her to be let blood, seeing the month preceding she had found so sudden help thereby. I consent, and she is again let blood, with like good success as before. In like manner in her fourth, fifth, sixth, seventh and eighth months, the same Symptoms returning, in their just distances of time, she was again let Blood and presently recovered. The last of her bleedings was but eight days before the beginning of her ninth month, with like profit as before; and about the end of the ninth month the said woman brought forth a live Male-child, and lusty.*

Yet I would not have a young Physician moved with these examples, be too bold in letting women blood in their last months of being with Child. But the Nature of the Diseases and of the women must be diligently considered, that Medicaments may be conveniently suited thereunto. Always remember that sins of omission are lighter than sins of commission, and that it is better in a doubtful case to fall short, than to outpass the due and fitting bounds. Yet when he finds the evident indications of Blood-letting, let him boldly draw Blood, first informing the by-standers or friends of the sick there is more danger of Abortion, and of the death of Infant and Mother, from the Cruelty of the Disease, than from Blood-letting: and always remembering that but little blood be taken away, that the Child may not miss of its nourishment. And if plenty of blood require a larger quantity to be taken away, let it be done at divers times, and not all at once.

Wherefore the foresaid Aphorism of *Hypocrates* does not absolutely forbid the opening of a Vein, but only warns that Physicians be wary what they do in that kind. Which is elegantly delivered by *Cornelius Celsus* in the 10. Chapter of his 2 Book, in these words. *The Antients did judge that young and old people could not bear Blood-letting. And they perswade themselves that a woman with Child let Blood would miscarry. But experience hath since taught us, that these are no general Rules, and there are other considerations of more weight, which the practitioners are to regard. For it matters not of what Age the Patient is, nor what she hath in her Body, but what her strength is. So that if a young man be weak, or a woman not with Child be weak, Blood is ill taken from them, for the remaining strength dies, and they perish. But a strong Child, and a strong old woman, and a woman with Child that is lusty, are safely cured by bleeding. So far Celsus. Some latter Physicians have dared to open the lower Veins in Women with Child, to Cure the Falling-sickness by consent of the womb, the Venereal and Pestilential Bubo, yea, and to prevent Abortion, as we may see in *Zacutus Lusitanus* in his Book of wonderful Cures Obser. 23. Book 1. and Obser. 130. and 151. of Book 2. Who by his own and other mens*
experiments

experiments endeavours to prove, that such Blood-letting may be safely practised. Which I leave to prudent Physicians to consider of.

We said about the beginning of this Chapter, that there is no difference in Curing the Diseases of women with child, saving with respect to the greater remedies; which differences must be in them thus determined, *viz.* That the diseases which hold women not with Child, as vomiting, want of Appetite and the like; in them being not with Child, they are to be Cured rather by vomiting than by Blood-letting, because they come from evil humors abounding in the stomach and the whole Body; but in women with Child, they need rather Blood-letting, because they spring from Blood retained in the very beginning of their being with Child. And experience hath taught that the vomiting which is wont often to trouble women with Child, is in the first months of Childing exasperated by purges; but by bleeding much abated, yea and wholly taken away, if the Blood-letting be iterated every month till the Symptom cease.

The use of Purging in women with Child *Hypocrates* hath defined in Aphor. 1. Sect. 4. women with Child (saith he) are to be purged, if the humor offending do work in the fourth month, and to the seventh. But these about the seventh less. And we must take heed what we do when the Child is very young, or old. *Galen* in his Comment says that there is the same proportion between a Child in the womb and fruit upon the Tree. For fruit when it first grows upon the bough, it is held by a very tender stalk, and therefore quickly falls, being shaken by a vehement wind. Afterwards when they are grown greater, they are not easily separated from the boughs. And yet when they are fully ripe they fall off of their own accord. In the same manner women suffer abortion in the first and last months, because in them the Child is not so fast tied to the womb. But in this age of ours, purges are wont to be given to women with Child in all the months (very near) of their being with Child, in Diseases springing from the tyranny of humors and Excrements vitiated, when the matter is in motion and work, or when it is concocted: so often as there is more danger feared from the evil Humor causing the Disease, than from the commotion raised by the purging Medicaments. Gentle and harmless Medicaments have made Physicians bolder in this kind, such I mean as we use at this day, as Rhubarb, Myrobalans, Cassia, Manna, Senna, Agarick and the like. But we must always remember that saying of *Hypocrates*; and we must more freely give purges in the middle months, and more warily in the first and last. Also the use of Pills is evermore suspected in women with Child; both because they make a greater commotion in the Body, and also by reason of the Aloes, which by reason of their extream bitterness is an enemy to the Child, and is thought to open the mouths of the Veins. But if sometimes the use thereof seems necessary, in some grievous infirmities of the stomach, which are wont frequently to infect women with Child the first months of their being with Child, let it be carefully washed with Rose-water, that the Acrimony thereof may be taken away; or let it be mixed with strengthening and astringent things, as Rhubarb, Mastich, and such like.

Clysters are not very safe, because by compressing the Womb they may cause abortion. So that when there is need of them, and in women accustomed to that kind of evacuation, they must be made in less quantity, and of such things as are rather mollifying and lenifying, than much purging.

In a word, touching Sweat-drivers, Piss-drivers, and such things as move the Courses, our Opinion is, That Movers of the Courses properly so called are never to be used in women with Child. And Piss-drivers because they likewise are apt to bring down the Courses, ought to be suspected; and if the necessity of some Disease require the use of them, the gentler must be made choice of. And finally Sweat-drivers may be safely given, because they drive the Humors out by the Habit of the Body, whereby no danger of abortion is incurred, insomuch that women in the middle of their being with Child, have been cured of the Whores Pox, without harm to their Child.

Chap. 17. Of Abortion or Miscarriage.

A Bortion or Miscarriage is the bringing forth of an imperfect or unripe Child. And consequently a child dead in the womb is not counted an Abortion till it be excluded. So that whether a live or dead Child be brought forth, not being ripe, nor having attained to the just term of growth which it ought to have had in the womb, it is to be termed an Abortion, or Miscarried Child.

CAUSES. The Causes of Abortion are some Internal, some External. The Internal may be reduced to four heads, *viz.* to the Humors, to the Child, to the Womb, and to the Mothers Diseases.

The Humors may cause Abortion while they offend in quantity or in quality.

They offend in quantity either by way of excess or of Defect.

Humors offending by way of excess, are seen in a Plethorick or over-full Constitution of Body; for Blood being more plentiful than is requisite to nourish the Infant in the womb, flows into the Veins of the womb, and is excluded by way of the monthly Courses, and brings away the Child with it.

Defect

Defect of Humors fitting to Nourish, springs from such Causes which are able to draw the Nourishment from the Child, as fasting, whether voluntary or forced; as when women with child loathe all kind of Meat, or vomit it up again; a thin diet in acute diseases, immoderate bleeding by the Nose, Hæmorrhoids, Womb, or by immoderate Phlebotomy. Whereupon *Hypocrates* in *Aphor. 34. Sect. 5.* If a woman with child go very much to stool, it is to be feared that she will Miscarry. Hereunto may be referred extream leanness of the whole body, wherein there is not blood enough to nourish the Infant. Of which, *Hypocrates* in *Aphor. 54. Sect. 5.* speaks thus, *Women with child being very lean, not by Nature, but accident, as famine, long-sickness, &c. they Miscarry, until they get their flesh again.*

In respect of the Child, Abortion may happen, if it be over great, so that it cannot by reason of its bulk be contained in the womb; hence it falls often out that little Women miscarry, especially if they be married to men bigger than ordinary, whose Children grow very great, and find not in the Womb place large enough to contain them, till they come to their perfect growth. Which made *Hypocrates* say in his Book of Superfoetation, *If any Woman conceive frequently, and do duly and at a certain period of time Miscarry, as in her second, third or fourth month, or latter; the narrowness of her Womb is in fault, which is not able to contain the Child as it grows great.* Also plurality of Children may cause Abortion, as when two or three or more are contained in the womb at one time; for then the Womb over laden excludes the Children before the fit time: which is the cause that Women often miscarry of Twins. Also the dead Child is to be reckoned among the causes of Abortion; for as soon as the Child is dead, Nature doth forthwith set her self to cast it forth.

Abortion happens in respect of the Womb it self, if it be not of largeness and capacity enough sufficiently to widen it self according as the Child grows, as was shewed above out of *Hypocrates*. As also if there be any thing preternatural in the womb, as an Inflammation, a Schirrhous Tumor, an Imposthume, and very many diseases besides. And finally if the womb be over moist and slack, that it cannot contain the Child so well as it ought to do.

In respect of the Mothers Diseases, Abortion comes two ways. First of all, when her diseases are communicated to the Child, whereby it is killed, or so weakened that it cannot receive due nourishment nor growth; such are continual and intermitting fevers, the Whores Pox, and many such like. Secondly, when the said diseases of the Mother do cause great evacuations or great commotions of the Body, large bleedings, from what part of the Body soever, fluxes of the Belly, grievous swoonings, Falling-sickness, Vomiting and *Tenasmus* [that is perpetual going to stool, and voiding nothing but a little slime] which above all other Diseases is wont to cause Abortion, because by that frequent and almost continual endeavour of going to stool, which perpetually attends this disease, the Muscles of the Belly are perpetually contracted, and do more compress the womb than the streight Gut upon which the womb rests; which continual compression or squeezing of the womb, doth at last cause Abortion.

External Causes which further Abortion, do some of them kill the Child, others draw away its nourishment, and others dissolve those bands wherewith the Child is fastened to the womb.

The Child is killed by grievous commotions of mind, as Anger, Sadness, Terror, &c. Meats earnestly longed for and not obtained, strong purging Medicaments, such things as provoke the Courses, such things as drive forth the Child, such things as are reckoned by a secret property to destroy the child in the womb: abominable smells, especially the stink of a Candle ill put out.

The child is deprived of its nourishment, by the Mothers being famished, and by immoderate loss of her Blood, especially when the child is big: As *Hypocrates* teaches in *Aphorism 60. Sect. 5.*

The bands which fasten the child to the womb are loosed by vehement exercise, Dancing, Running, Riding or Jolting in a Coach or Cart: carrying of an heavy weight, or lifting it from the ground, a violent fall and squelch, a blow upon the Belly that mauls the child, vehement motion of the belly by Coughing, Vomiting, Loosness, Neezing, Convulsions, crying out, immoderate or over wanton venereal Embraces. And in a word, vehement motion of the Arms, by drawing somewhat violently to a body, by turning a wheel, or doing some such work, may exceedingly further Abortion or Miscarriage.

SIGNS. The Signs of present Abortion are manifest of themselves. But such as go before Abortion and Prognosticate the same, are these: An unusual heaviness of the Loins and Hips, a loathsomeness to stir, Appetite gone, shivering and shaking coming by fits, pain of the Head, especially about the Roots of the Eyes: a straitning of the sides, and of the belly above the Navil: the flagging or falling, and extenuation of the Dugs, which made *Hypocrates* to say in *Aphor. 37. Sect. 5.* *If the Dugs of a woman with child so suddenly grow small, that woman will miscarry.* For extenuation of a womans dugs in such a case, doth signifie want of blood in those veins which are common to the womb and the dugs, by means of which defect the child is in danger to Miscarry. But if abortion shall

be caused by some external efficient, causing violent agitation of the Child in the womb, and a bursting of the Vessels, with a pain raised in those parts; the Spirits and Blood run speedily to the genital parts, of which the Dugs being destitute, grow smaller than they were. Furthermore, Plenty of Milk dropping from the Dugs doth argue a weak Child, and consequently portends Abortion; according to *Hypocrates* in Aphor. 52 Sect. 5. But if frequent pains, and almost continual, do torment the Reins and Loins, reaching towards the Share as far as *Os Sacrum*, with a certain endeavor of going out of the womb, it is a certain sign of a woman that she will shortly miscarry. For those parts do signify that the Membranes and Ligaments wherewith the Child is fastened to the womb is stretched and torn in sunder. And if so be that pure Blood, or such as is wheyish, or water flowing from the womb, do follow the aforesaid pains and endeavors of coming out; it shews that Abortion is hard at hand, and that the Vessels and Membranes of the womb are broken, and the mouth of the womb open. At the same time, the Situation or posture of the Child is changed; for whereas it lay high, and possessed the middle of the Womans Belly like a Sugar-loaf bearing out; it is now gathered round like a Foot-ball, and rolled down towards the Water-gate. Also oftentimes there follow grievous Symptoms, as Shiverings, Tremblings, Palpitations of the Heart, Swoonings and abundant Bleeding.

Hereunto may be added what *Hypocrates* teacheth us in the Second Book of Popular Sickneses, Text 17. That if after violent external Causes, such as are a blow, a fall and such like, vehement pain, and perturbation arise in a Woman with Child, she suddenly (or at most the same day) Miscarries; but if the external cause were weak, the Abortion may be deferred till the third day, which being once over, there is no longer danger of Abortion, because such wounds and hurts are wont to grow well again upon the third, or at most the fourth day, or very much to be mitigated and asswaged; whereupon the Child is again confirmed in the womb and retained. Which precept is of great moment in the Practice of Physick, that Women with Child being hurt by some external accident, should keep their bed for three days or longer, and use such Remedies as prevent Abortion.

PROGNOSTICK. The Prognostick of Abortion may be divers, after this manner:

Women are more endangered by abortion, than by due and timely Child-birth, because it is more violent, and unseasonable; for as in ripe Fruit, the Stalks are loosned from the Boughs, and the Fruit falls of it self; so in a Natural Birth, the Vessels and Ligaments wherewith the Child is tied to the womb, are loosned and untied as it were of their own accord, which in case of Abortion must needs be violently broken asunder.

Very many women become Barren by their Miscarriages, by reason of those exceeding rendings and tearings which do wholly overthrow the dispositions of the womb.

Much bleeding accompanied with fainting, raving and Convulsions, is wont to cause death; and *Aretæus* testifies he never saw any escape who in the time of their abortion, or afterwards, had Convulsions-fits.

Inflammation of the womb caused by abortion, is for the most part deadly; for Blood flowing to the womb in great quantity, is not purged out, but putrifies therein, and regurgitates or flows back into the upper parts; whence arise burning Fevers, pantings of the heart, Heart-burning, and other Symptoms enumerated before.

Abortion is more dangerous in a woman that never bore Child before, because being unaccustomed to Pains, and having those Passages more strait, she is longer and more vehemently tormented.

Women very lean or very fat, are endangered by Miscarriage; the former, because of their weakness; the latter because of the narrowness of those Passages by which the Child must come forth.

Abortion is more dangerous in the sixth, seventh and eighth months, because the Child being the greater is excluded with the more pain and difficulty.

Women which have a more loose and moist womb than ordinary, do Miscarry commonly without danger, especially in the first month; because those parts in such women, do easily give away, whence their pain and trouble is the less.

Hypocrates in the second Book of Popular Sickneses, affirms, That to Miscarry of a Male Conception of threescore days old, helps a woman whose Courses are stopped: By stopping of Courses, he understands only their imminution, when women are not sufficiently, or conveniently purged at their monthly seasons; for by such an abortion or Miscarriage as aforesaid, those stopped passages are opened, and the Blood is drawn towards the womb, which came thither but slowly in former times. Our ordinary women seem to have taken notice of the truth of this saying of *Hypocrates*, who touching an abortion of a few months, are wont to say by way of Proverb, *A Miscarrying woman is half with Child again.*

CURE.

The cure of abortion consists in Preservation, for that which is past cannot be helped. But all the Symptoms which follow abortion, are the same which accompany women duly brought to bed.

The

The Preservation from Abortion hath two principal Points or Heads: The one concerns the woman before she be with Child: The other when she is with child.

Before the woman is with child, all evil dispositions of body which are wont to cause abortion, must be removed: as fulness of blood, badness, of Humors, and peculiar Diseases of the womb, *viz.* Distempers, Swellings, Ulcers, and such like.

Fulness of Blood opens the Veins of the womb, or strangles the Infant while it is in the womb. This if it be a pure and simple plenitude, may be cured by Blood-letting, such as shall answer the quantity of blood super-abounding.

But badness of Humors is either cholerick and sharp, so as to open the Orifices of the Veins, or by provoking nature to stir up the expulsive faculty, whereby the child comes to be expelled with those evil Humors; or by reason of plenty of Excrements heaped together in the first Region, and distending the belly, it suffocates the Child; or it vitiates the blood in the whole habit of the Body, rendring it unfit to nourish the Child; or it fills the vessels of the womb which retained the child, full of slime and snor.

This Badness of Humors may likewise be holpen by blood-letting, but it must be in a lesser quantity, seeing the principal scope of the cure is by frequent purgations, to take away the superfluous Excrements of the Body. And in the spaces between Purge and Purge, such things must be used, as help the distemper of the Bowels, mitigate the sharpness of Humors if there be any, or thicken the said Humors, in case they be too thin. Or if flegmatick Humors are too rife, they must be dissolved by Sweat-drivers, Piss-drivers, and other Remedies. Howbeit we must diligently observe, that whatever ill humor abounds, Issues are wonderful profitable to prevent abortion: of which *Zacutus Lusitanus* gives a special note, in these words: *By most happy Experiments I have observed, That frequent abortion caused by corrupted Humors which flow from the whole body to the Womb, and by their evil disposition or abundance do kill the Child, is hereby as by a most present help prevented: Many women did Miscarry upon this very account, among which some having oftentimes brought forth a Child of seven months or four months growth, but torn and putrified, could by no other means be freed from so great a Calamity, save by Issues made in their Arms and Thighs, which were always made at the beginning of the fluxion; by which means they went out their time, and brought forth Children healthy, and not defiled with any Infection.*

The peculiar Diseases of the womb, as great Moisture, Swellings, Ulcers, and such like, must be cured by their proper Remedies described in the Chapters which treat of them.

In women with Child, if the same Causes be present as in other women, the difficulty is yet greater, because big-bellied women cannot so easily bear all kind of Remedies. Yet, lest being destitute of all help, they should remain in extream danger of Miscarriage and Death, some kind of Remedies are to be used.

In case therefore the Patient be too full of blood, she must have a vein opened, though with child, especially in the first month; and that the second and third time, if need be. Always remembering that there never be much blood taken away at a time. Of which kind of bleeding we have discoursed more at large, in the foregoing Cure.

And when there is an abundance of some very bad Humors, gentle Purgations must be reiterated, especially in the middle months of a womans being with Child. And if a moist, Rheumatick, Snotty, or windy distemper do annoy the Patient, we may sometimes proceed to a Sudorifick Diet, at least a gentle one, in the stronger sort of women.

Mean while, in the whole course of being with Child, astringent and strengthening Medicaments are to be used, such as have a vertue to hinder abortion. Many of which have been described in our Chapter of immoderate flux of the Courses; whereunto these following may profitably be added.

Take of Kermes-berries and Tormentil Roots, of each three drams: Mastich one dram and an half. Make all into a Powder, of which give the Patient half a dram at certain distances of time, or as much as may be taken upon the point of a Knife. Or,

Take of red Coral two drams: Kermes-berries, Date-Stones, of each one dram: Shavings of Ivory half a dram: Pearls not bored through, a scruple. Make of all a Powder.

And let her swallow every day certain grains of Mastich in the morning.

Our ordinary women do frequently use Plantane Seed, which they take in the morning about the quantity of half a dram, with Wine and Water, or in an Egg, or Broth, or by its self, almost every day, the whole time of their being with Child, and that not in vain.

To the same purpose very effectual Electuaries are compounded, according to this following Example.

Take Conserve of Roses two ounces: Citron-peels candied six drams: Myrobalans candied, pulp of Dates, of each half an ounce: Coral prepared, Pearls prepared, and Shavings of Ivory, of each a dram; with Syrup of Quinces make all into an Opiate, of which let the Patient take often the quantity of a Chesnut.

If a Liquid form shall be more desired, a Decoction of Tormentil-Roots, sweetned with Conserve of Roses, may profitably be given.

The following Lozenges are very good; for they strengthen, and do by little and little free the Body from Excrements, though sometimes they do not visibly purge.

Take *Maon*, the three sorts of Sanders, Rhubarb, Senna, Corals, Pearls, of each a scruple: Sugar dissolved in Rose-water, four ounces. Make all into Lozenges, weighing three drams a piece. Let her take once or twice a week by it self, or dissolved in a little Broth.

Outwardly Oyntment and Plaisters are to be applied, made after this manner.

Take Ship-pitch half an ounce; Frankincense an ounce; Mastich half an ounce; Dragons Blood and red Roses, of each two drams. Make all into a Cerate or Plaister. Or,

Take Oyl of Mirtles and Mastich, of each one ounce; red Sanders and yellow, Hypocistis, Acacia, of each half an ounce: Spodium, red Roses, of each two drams, Bole Armenick, Terra Siggillata, Shavings of Ivory, of each two scruples; Turpentine washed in Plantane Water an ounce; Wax as much as shall suffice. Make all into a Cerate or a plaister, spread it upon a Cloth, and apply it to the Reins.

Plaisters compounded of the Mass of *Emplastrum pro Matrice*, and *Emplastrum contra Rupturam*, are to be applied to the Region of the Share, and of the Loyns. Or after this manner following.

Take of the Mass or Rowl of *Emplastrum pro Matrice* three ounces, Bistort Roots, Acacia, Hypocistis, Pomegranate peels, of each half an ounce; Laudanum six drams. Moistn and soften them with Juycce of Quinces, and make a Rowl of Plaister for the use aforesaid.

Concerning plaisters it is observed, That they must not be worn long together, but taken off ever and anon; otherwise, if they stick too long upon the Back, they do so heat the Kidneys, that the poor Women are sometimes troubled with sharpness of Urine, or do sometimes piss Sand, Stones, yea, and Blood it self.

Neither must we omit such things which are accounted by a secret property of their Nature to retain a Child in the womb; as an Eagle-stone worn about the Neck, a Load-stone applied to the Navil, Corals, Jaspers, Smaragds, Bones found in the hearts of Stags, and such like, worn under the Arm-pits, or hanged about the Neck.

Zacutus Lusitanus in Obs. 152. of the second Book of wonderful Cures, commends a Girdle made of the Hide of a Sea-horse; and if that be not to be had, he saith a Wolfs Skin may profitably be used instead thereof.

And that the success of these Medicaments may be happy, the patient must be enjoyned to rest and keep her self as quiet as possible she can, both in her Body and Mind; also to abstain from Genial Embracements, which do vehemently towze and disquiet the womb. For while the womb opens it self to comprehend the Mans Sperm, with which it is exceedingly delighted, it drives forwards the lately conceived Child, not yet throughly fastened in the womb.

But if notwithstanding the Medicines aforesaid, by reason of the vehemency of the Cause, whether it be internal or external, the Patient be ready to Miscarry, we must apply our selves to do the best we can, with these following Remedies. And in the first place, so soon as pains and throws shall be perceived in the lower parts of the patients Belly toward her Share, in her Loyns, and about the *Os sacrum*, we must seek to allay and stop them, both by things given in, and outwardly applied, according to the variety of Causes. For if abortion be provoked by Crudities and Winds (which is most usual when it begins from an internal Cause) a Powder must be given, compounded of *Aromaticum Rosatum*, and Coriander seeds: Yea, we may give of the *Aqua Imperialis*, if the quantity of flegm and wind be very great.

At the same time let Carminative, or Fart-forcing Medicaments be applied below the patients Navil: such are bags of Annis-seed, Fennel-seed, Fenugreek-seed, Flowers of Chamomel, Elder, Rosemary and Stœchados mingled together; Or a Rose-cake fried in a Pan with rich Canary, and sprinkled with Powder of Nutmeg and Coriander, or the Caul of a Wether newly killed, or his Lungs laid on warm.

If with these means the pains cease not, let a Clyster be cast in made of Wine and Oyl, wherein two drams of *Philonium Romanum* may be dissolved, or Narcoticks may be given inwardly in a smaller Dose to allay the violence of Humors and Winds, as we are wont to do in pains of the Cholick.

But if by reason of contumacious pains that will not be asswaged, or of the violence of some external cause, blood begin to come away, Reveling Medicines are to be applied, to withdraw the course of the blood from the womb: such are, rubbing of the upper parts, and painful bindings; also Cupping-glasses fastened to the Shoulder-blades, under the Dugs, and under the short Ribs on both sides. Yea, and if the woman be full of Blood, it will not be amiss to take some blood from her, both when she begins to void blood, and especially before it begins to come; and the blood must be taken away at several times, a little at once.

And

And if all this will not suffice, but the Flux of blood continues, we must proceed to astringent and thickening Diet, and Medicaments; and so the Powders and Electuaries formerly described, may be administred. Also Juyce of Plantane new drawn, and Sprup of Poppies to the quantity of an ounce, with Powder of Bole-Armenick or Dragons-blood.

Also outwardly may be used Fomentations binding and strengthening, made of Pomegranate-peels, Cypress Nuts, Acorn-Cups, Balaustins, Grape-stones, and such like things boyled in Smiths water, and red Wine.

Or a little Bag full of red Rose-leaves and Balaustins, may be boyled and applied hot to the Patients Belly.

Hereunto may be added the foresaid Plaisters and Cerecloaths: Or for to cause the more astriction, make a Cataplasim of Astringent Powders, with Turpentine, and the whites of Eggs, which must be spread upon Tow or course Flax, and applied to the Navil and the Reins warm. The Tow which shall be applied to the Navil, must be moistened with Wine; that which is to be applied to the Kidneys, with Vinegar.

The two following Medicaments are accounted for secrets, and it is believed they will certainly hold the Child in the womb, if they be used before it be loosned from the wombs Vessels.

Take twelve Leaves of Gold: Spodium a dram; the Cockes Treading of three Eggs that are not addle. Mix all very well, till the Gold be broken into small Atomes. Afterwards dissolve them in a draught of Whitewine, and give it to drink three mornings together.

At the same time let the following Cataplasim be laid on.

Take male-Frankincense powdered two ounces; five whites of Eggs; let them be stirred about together over hot coals, always stirring them that they may not clodder together; add Turpentine to make them stick. Then spread it upon Parcels of Tow, which lay upon her Navil as hot as she can possibly endure them, twice a day, morning and evening, on the three days aforesaid.

Chap. 18. Of Hard Child-birth.

HARD Travail in Child-bearing, is such as keeps not the due ordinary Laws of Nature, taking up longer time than ordinary, and accompanied with more vehement pains than are usual, and other more grievous Symptoms.

CAUSES.] Divers Causes hereof may be assigned, and both internal and external. The internal depend either of the Mother, of the womb, or of the Child.

In respect of the Mother, Travail with child may become sore and hard by the weakness of her Body, either Natural, or in regard of Age, as in very young and very antient Women; or in regard of Diseases wherewith the woman was troubled during the time of her going with Child, or is still troubled. Hereunto also leanness, and over great dryness of the whole body, may be added; as also over-fatness, and grosness compressing and straitening the passages of the womb; ill-shape of such bones as border upon and embrace the womb, as in such as limp, wind stretching the Guts; a Stone or preternatural Tumor possessing the bladder, and pressing the womb; and the ill constitution of the Lungs and other parts serving for Respiration, because holding the breath is very necessary to exclude the Child.

In respect of the womb, divers Diseases thereof may cause a sore Labour, as Swellings, Ulcers; Obstructions, Astrictions, Stoppages arising from preternatural Causes.

In respect of the Child, Hard Travail is caused, when there is some fault therein, in respect of its substance, its quantity, its Figure, and certain things thereunto belonging.

The Child is faulty in regard of substance, when it is dead or putrified, or some ways infected, or weakened with some Disease, so that it hath no ability to contribute to its own exclusion.

In regard of quantity likewise, the Child doth not suffer its own Birth, which is either discrete or severed quantity, or concrete and joyned; the former is called number, the latter Magnitude. In regard therefore of continued quantity, the child is faulty, if the Body or Head of it be over great which makes the Birth thereof become difficult and labour some; in regard of the disjointed quantity of the child or burden, labour becomes difficult, as when there are more than one in the womb, so the Birth of Twins is more painful than of a single Child for the most part.

In respect of the Figure or Scituation of the child in the Womb, difficult Travail happens many ways; as when the Child endeavours to come forth with its feet or its hands foremost, or puts out one hand only, or one foot; or when it endeavours to come forth doubled, with its breech or its belly foremost.

In regard of the Childs Adjuncts or certain things belonging to the Child, difficulty of Travail happens, when those Membranes which enclose the Child are more thin than ordinary, so that they come to break sooner than they should; whence follows an over-quick effusion of the Waters contained therein; whereupon the mouth of the womb remains dry at the time of the exclusion of the Infant; or where the foresaid Membranes are more thick and compact than ordinary, by which means the Child is hardly able to break them.

External Causes depend upon things necessary and things contingent: the things necessary are such as Physicians commonly call *res non Naturales*, things not Natural. So a cold and dry Air, and the Northern-wind are very hurtful to a woman in Travail, because they straiten the whole body, drive the blood and spirits inward, and prove very destructive to the Infant coming forth of so warm a place as the womb. Also air more hot than ordinary, dissipates the spirits, and exhausts the strength both of Mother and Child, easily introducing a feverish Inflammation into a Body replenished with ill Humors, and exagitated.

Meats raw and hard to digest, or of an astringent quality, taken in large quantity before the time of travail, may render the same laborious, the stomach being weakned, and the common passages stopped, which in this case ought to be very free and open.

Sleepiness and Sottishness do slacken the endeavours both of the Mother and the Child, and shew nature to be weak.

Unseasonable stirring of the woman doth much delay the Birth of the Child, when as she refuses to stand, to walk, lie down, or to sit upon the Midwives stool, as need shall require; or when she is unduly agitated to and fro; whence it comes to pass, that the Child cannot issue in a fitting posture, or loses the good posture it had, by reason of the Mothers undue and disorderly moving herself.

The retention of Excrements at the time of Travail, as of Urine distending the Bladder, of hard Excrements in the strait Gut, and Hemorrhoids much swelled, do straiten the neck of the womb, and divert Nature from her endeavour of expelling the Child.

And in a word, vehement passions of mind, as Fear, Sadness, Anger, may very much encrease the difficulty of Child-birth.

To things contingent are referred Blows, Falls, Wounds, which may very much hinder the Birth, hereunto likewise appertain the parties assistance in time of Travail to help the labouring woman, *viz.* strong women & maid-servants, which may lift her up and support her when she is in her labours, and especially an expert Midwife, which ought to manage the whole Business. For if the Midwife err in her office, it is wont to cause difficulty of Birth. For sometimes the Midwives do over-soon exhort the Childing-woman to hold their breath and to strain themselves to exclude their Child, while the bands which fasten the Child to the Womb, are as yet unloosed; by which means, the strength of the woman is wasted before hand, which should have been reserved to the just time of her Travail. Yea, and the truth is, while the Midwives do over-soon perswade the Childing-women, that the time of their Travail is at hand, they bend all their strength to exclude the Child, and oftentimes violently break those bands with which the Child is fastened, and cast themselves into no small Jeopardy.

DIAGNOSTICK. Hard Travail is known both by the Childing-woman, and by the assistants, but especially by the Midwife. And in the first place, if the woman continue a longer time than ordinary in her Labours, as two, three, four or more days: whereas a truly natural Child-birth ought to be accomplished within the space of twenty-four Hours. Again, it is a Sign of an hard Labour, if the Womans pains be weak, and are long before they return, and if her pains are more about her Back than privities. And the Causes of hard Travail, are known by relation of the Childing-woman, and are for the most part evidently to be seen. So the weakness of a woman, her over-leanness, or over-fatness, is perceived by the habit of her Body. Diseases of the womb are known by their proper Signs. The Childs weakness is known by its weak and slow moving itself. But the Signs of a dead Child shall be declared in the next Chapter. The greatness of the Child may be gathered from the stature of the parents, especially when a Big-bodied man is matched with a little Woman. But when there are none of these Signs, and the woman labors stoutly, and the Child stirs and makes its way sufficiently, and yet the Travail is hard and painful; it is a token that the secudine or Afterbirth is stronger than ordinary, and can hardly be broken, which conjecture is more probable, if no water or moisture come from the Woman during her Labors. The disorderly posture of the Child is perceived by the Midwife, and other Causes are visible to the Eye, as we said before.

PROGNOSTICK. As for the Prognostick. Hard travail is of it self dangerous; in which sometimes the Mother, sometimes the Child, and sometimes both do lose their lives.

If a Woman be four days in Labour, it's hardly possible the Child should live.

Sleepy Diseases and Convulsions which befall a woman in Travail, are for the most part deadly.

Sneezing which befalls a woman in sore Travail, is good. Out of *Hypocrates* in his Aphorisms.

CURE.] To cure difficulty in Child-birth, first all causes which may delay the birth, are as much as may be to be removed. And afterwards, such Medicines as further the Birth are Methodically to be administred.

And in the first place it is common among the Women to give a groaning wife a spoonful or two of Cinnamon-water. Or Cinnamon it self in Powder with a little Saffron may be given; or half a dram of *Confectio Alkermes* may be drunk in a little Broth. Also Saffron alone being given ten grains in every Mels of Broth the woman takes, or every hour being taken in a little Wine, is very good. Or,

Take Oyl of sweet Almonds and Whitewine, of each two ounces: Saffron and Cinnamon of each twelve grains: *Confectio Alkermes* half a dram: Syrup of Maiden-hair one ounce and an half: Mix all, and make thereof a potion.

If this shall not suffice, but that stronger things must be used, the following potion will be most effectual, which I have had frequent experience of.

Take *Dictamnus Cretensis*, both the Birthwerts and Trochises or Cakes of Myrrh of each half a scruple: Saffron and Cinnamon of each twelve grains: *Confectio Alkermes* half a dram: Cinnamon-water half an ounce, Orange-flower and Mugwort-water of each an ounce and an half: Make all into a potion.

Among the more effectual sort of Medicaments are numbred Oyl of Amber, Oyl of Cinnamon and extract of Saffron, which do in a little quantity work much, viz. Extract of Saffron to five or six grains, Oyl of Cinnamon to four or five drops; Oyl of Amber to twelve or fifteen Drops, in Wine, Broth or other Liquor.

Sneezing hastens the Birth, for *Hypocrates* in the Aphor. 35 (Sect. 5) saith Sneezing which happens to a woman in fore travail is good. Sneezing may be provoked by the following Powder.

Take white Hellebore half a dram: Long Pepper one scruple, Castorium five grains. Make all into a Powder, and blow thereof the quantity of a Pease.

The same *Hypocrates* prescribes another Remedy in the first Book of Womens diseases, which is omitted by all authors almost. And that is the opening of one of the lower Veins of the Body, which he propounds in these words. But if (saith he) a Big-bellied woman be so stopped that she cannot bring forth, but continues diver days in her pains: if she be a young woman, vigorous and full of Blood, her Ankle Veins must be opened, and Blood taken away, according as her strength will bear. Although this remedy be never used by our Practitioners; and it seems much to be feared, because in Travail nothing is so needful as strength, which may be weakened by Blood-letting. Yet if difficult Travail do arise from fulness of Blood, which *Hypocrates* doth insinuate in these words, where he sayes, If the Woman be young and in the prime of her strength, and very full of Blood, there is no question, but bleeding may be very profitable, because the Veins being very full of blood are wont to make all other inward passages of the body more strait. Whence it comes to pass, that in pains of the Stone in the Kidneys, the like Blood-letting doth often work wonders, and facilitate the expulsion of Stones both in the Kidneys and Uretors.

Also hard Travail may be holpen not only by these inward Medicines prescribed, but likewise by outward.

Let the Midwife therefore frequently anoint the womb of the Childing-woman with Oyls of Lillies, sweet Almonds, Lin-seed, and such like.

Also let her be fomented on the nether parts with an Emollient Decoction of Marshmallow and Lilly-Roots, Leaves of Mallows, Violets, Mugwort, Seeds of Line and Genugreek, with the flowers of Chamomel and Melilot.

Let sharp Clysters be administred, by the provoking vertue of which the expulsive faculty of the womb may be likewise roused up; and the Guts being emptied will afford larger space for the womb.

Let her Navil be anointed with Oyl of Amber. Some commend the Gaul of an Hen applied to the same part.

Also such things may be used which are thought by a peculiar property to help the Birth as Eagle-Stone, Load-Stone, Storax, and the rest being fastened to the Hips.

Hartmannus commends the Eyes of an Hare taken in the month of March, which are carefully to be taken out and dried intire with Pepper. Let one of these with Peppet be so tied to her Belly, that the Sight of her Eye may touch her belly: and it will bring forth the Child, be it alive or dead. Which being done, take away the Eye lest it bring forth the womb it self. He says likewise that it is good to bring out the Mole.

Heed is likewise to be taken that the woman carry no precious Stones about her, either in Rings or otherwise, but let her lay them all away: for many of them are conceived by a peculiar property to retain the Child in the womb.

If the Child seem to be weak, it must be refreshed, both with strengthening things given to the Mother, as warm Wine, *Confectio Alkermes*, Cinnamon-water; and also with things outwardly applied

applied, as with a crust of bread, or a Rose-cake strewed with powder of Nutmegs, Cinnamon, Cloves, Kermes berries, sprinkled with *Aqua Imperialis*, or with warm Wine. Or with a piece of Wether-mutton a little broiled upon a Gridiron, and sprinkled with water of Roses, or of Orange-flowers: with the cawl of a Wether newly kill'd, not yet cold, and such like.

If the child begin to come forth in a disorderly manner, as by putting out one Foot, one Hand, or any other way, the Midwife must no ways receive it on that manner, but thrust it into the Womb again, and compose it to a right and natural posture or form of Egress. Which must be done by laying the Childing woman on her back in the bed, with her head somewhat low, and her buttocks high: and then gently pressing her belly towards the short ribs, and thrusting the child into the womb. Afterward let the Midwife endeavour to put the child into a right posture for coming out, by an artificial hand, procuring that the child turn its face towards the mothers back, and its buttocks and thighs let her lift up towards the mothers navel, and so hasten the same unto a Natural manner of coming forth.

When all hope of the childs coming forth is past, or when the Mother is almost dead, some Authors proceed to the *Cæsarean Section* (that is to cut the child out of the womb, as *Cæsar* was cut out) of which *Franciscus Rossetus* hath printed a most elegant Treatise, in which by many reasons and examples he endeavours to shew, that such a thing may be sometimes done with good success. Howbeit, seeing this Operation is very dangerous and terrible, it ought seldom or never be practised by a discreet Physician, that would preserve his own reputation.

Chap. 19. Of a Dead Child.

IN fore Travail of child-birth by reason of great and long Labour, the child is oftentimes killed; and sometimes before a womans pains come upon her, the child happens to die through some preternatural accidents, such as those which are wont to cause Abortion: and if it hath not attained to the due time of natural birth, it causes abortion; but if it have, it causes a hard and sore Travail, because in a due and natural birth, both the Mother and the child ought to join their forces, to bring it from the dark dungeon to the liberty of day.

CAUSES. All such things therefore which cause difficult Child-birth being in a greater and more grievous degree, are of power to kill the child. But especially the Child is wont to be kill'd, if it come in so untoward and preposterous a Figure, that it can by no means be brought forth in that manner, neither can the Midwife or Chyrurgeon draw it forth, or reduce it to a better posture. For while sticking thus in the mouth of the womb, it frustrates all the endeavours of the Mothers straining her self to exclude it; it comes to pass, that in those strainings, various motions and compressions, sometimes both Mother and Child, sometimes the Mother alone, and sometimes the child alone doth die. It is to be admired which *Fabricius Hildanus* writes, touching two women which died through hard Labor, in whom their wombs were found broken asunder, and the heads of the Infants in their Mothers bellies. By which we may gather how strongly a lusty child doth labor to work it self out of the mothers womb.

DIAGNOSTICK. A dead child is known, when the motion thereof ceaseth, which either the mother did feel, or the Midwife perceive by her hand laid on; or either warm and strengthening things which were wont to awake and rouse up the powers thereof when they were in a slumber or stupified. Also the mother finds a great sense of weight, with which and pain of the belly they are troubled: when they turn from one side to another they perceive the child to roll from one side to another like a stone. The lower part of the belly feels very cold, the native heat being extinguished and those spirits dissipated, which were formerly in the child; their eyes become hollow and troubled, their Face and Lips pale; their extream parts appear cold and of a Leadencolour: their Dugs become flap and flaggy, and at length, when the child rots, stinking moistures flow from the womb, like water and blood: their belly is blown up with vapors ascending thereunto; a filthy smell, and stinking breath comes both out of the mouths of such women, and from their whole bodies. If the after-birth be excluded before the child, it is a certain token that the child is dead in the womb.

PROGNOSTICK. As to the Prognostick. A child dead in the Womb is a very exceeding dangerous thing, and if it be not timely voided forth, it is wont to cause Feavers, Faintings, Dead-sleeps, Convulsions, and death it self.

Yet sometimes a child dead in the womb may be kept a long time, as appears by many stories related by divers Authors, which *Schenkius* hath collected in great number as rare Cases, and *Sennertus* hath transcribed out of him, touching many women which have voided the Bones of Children dead and putrified in the Womb, by their Water-gate, their Dung-gate, and by a swelling that broke in their Belly.

I have seen one woman which voided all the bones of her Child by her Navil, and her Navil growing afterwards whole again, she recovered her perfect health.

CURE.] The Cure consists wholly in the Exclusion or Extraction of the Child; for seeing great danger of life attends the Mother so long as the dead Child is in her Womb, as soon as ever by the foregoing signs we certainly collect the Child is dead, we must make haste to force it out. Which is done by the same Remedies which were formerly propounded to hasten the Birth. But among them we must choose out the most strong and effectual, whereunto some other things may be added which are yet stronger, after this manner:

Take Leaves of Savin dried, round Birth-worth Roots, Troches of Myrrh, and Castoreum, of each one dram; Cinnamon half a dram; Saffron half a scruple. Mix all into a Powder. The Dose is a dram in Savin-Water. Or,

Take Diſtammus Criticus, Savin, Borax, of each a dram; Myrrh, Asarum Roots, Cinnamon, Saffron, of each half a dram. Mix and make all into a Powder. The Dose is a dram in the foresaid, or such like Liquor.

In the mean time, let the Fomentations aforesaid be applied to the Privities, the Share, and space between the Water and the Dung-gate: adding Briony Roots, Roots of wild Cucumer, Florentine Orris, round Birth-wort, called *Aristolochia Rotunda*, and Broom flowers.

After Fomentation, anoint the said parts with *Unguentum de Artanita*, or with this following:

Take *Aristolochia Rotunda*, or round Birthwort, *Coloquintida* and *Agarick*, of each one dram: Gum-Ammoniac dissolved in Wine and Bulls Gall, of each two drams: with *Oleum Cheirinum*, as much as shall suffice. Make all into an Oyntment.

Also let this Pessary be put up into the Womb:

Take *Aristolochia Rotunda*, Orris Root, Black Hellebore, *Coloquintida*, Myrrh, of each one dram; Galbanum, *Opopanax*, of each half a dram: with Ox Gall, make all into a Pessary. Or this:

Take *Ammoniacum*, *Opopanax*, *Castorium*, *Sagapenum*, black Hellebore wild Vine, round Birthwort, Pulp of *Coloquintida*, Scammony, of each one scruple; *Euphorbium* one dram: With Juyc of Rue, Bindweed, wild Cucumer, and an Oxes Gall; make all into a Pessary.

Zacutus Lusitanus in Obs. 154. of the Second Book of his strange and admirable Cures, doth testify, That a dead Child in the ninth months growth, producing many Symptoms in the Mother, was driven out by this Pessary, and by help of an Oyly Bath, wherein was mixed the Decoction of such Herbs as do open and widen the Passages of the Body.

A Fumigation of Galbanum or an Asses Hoof, may be received by a Funnel into the Womb.

If the Matter hang long, it will be good (the Woman being sufficiently strong) to give her a purging Medicine; whereby evil Humors, which in this case are easily collected, may be evacuated, and the dead Child consequently cast forth.

Angelus Sala, in his Book which he calls *Triumphus Emeticorum* (that is, the Triumph of Vomits), doth witness, That in this case he had often with happy success given four or five grains of *Mercurius vitæ*, which doth most powerfully expel the dead Child, and excel all other Medicines in that point. Which notwithstanding, in regard of its vehement working, requires great Caution and Discretion in the Physitian that would use it.

If after Medicines long tryed, the dead Child cannot be ejected, we must implore the Chyrurgeons aid. Who may pull it out, either by Instruments, as *Paulus Aegineta* describes the manner, or only help of the hand, as is taught by *Carolus Stephanus*, *Banrhine*, and others; all which are diligently transcribed by *Schenkius* and *Sennertus*.

CHAP XX.

Of the After-birth retained.

IN a Natural Birth, commonly the Secundine is excluded presently after the child, yet sometimes it is retained in the Womb, by which means the Mother is in great danger of her life.

CAUSES.] The internal causes of this retention are, the over-thickness of those Coats, and their too great compactness, by which means they cling more fast to the side of the womb: their being swelled through confluence of Humors, which is stirred up in a laborious Travail; weakness of the Mother caused by hard Labour, so that she wants strength to exclude the After-birth; and the shutting up of the Mouth of the womb after the Child is come away. But the external causes are, the cold Air, by force whereof the Secundine is repelled, and the wombs mouth stopped; certain smells, by which the womb may be enticed upwards or agitated; some grievous passion of mind, as fear, or sudden terror or frowardness of the Childing-woman, which will not abide in such a posture, nor use such

endeavours as are necessary to this work; the over-great weight of the Infant, by which the Navil-string is broke upwards, and the Secundine is left within; and the Error of an unexperienced Midwife, which cuts the Navil-string too soon, or holds them not fast in her left Hand, as she ought to do; for if she let them go, they are drawn back into the womb, and there lie hid with the After-Birth, which they ought to have holpen to pull out.

DIAGNOSTICK.] The Tokens of a Secundine retained are needles, it's apparent of it self; yet sometimes a bit thereof is severed from the whole and retained, which is not so easie to be known; yet it may be known, because the womb after the Birth doth yet labour to cast somewhat forth, although those endeavours are not so great as formerly; there is perceived in the womb, a sense of pain and heat, and after certain days, a filthy and carrion-like smell exhales from the Womb.

PROGNOSTICK.] The Retention of the Secundine is a very dangerous thing, as if it continue some days in the Womb, it acquires a filthy putrefaction, whence ariseth an acute Fever, aptness to Vomit, fainting, difficulty of breathing, a Diaphoretick Sweat, Coldness of the extreame parts, Hysterical Fits, Fits of Falling-Sickness, and at last death it self.

CURE] *Hypocrates* in the Second Book of Popular Sickneses, by the example of a certain Carriers Wife, doth hint unto us, That it is good in this case, when corrupt Blood doth suddenly come from the womb in large quantities, for it is hopeful that those Membranes being rotted and wasted, will flow forth upon the sixth or seventh day.

The After-birth retained, is expelled by the same remedies which were propounded to drive out the dead Child, whereunto we may add some appropriated or Specifick Medicaments, mentioned by Authors.

Gesnerus and *Angenius* do very much commend the Stones of a gelded Horse, cut in pieces and dried in an Oven. The Powder whereof is given, as much as can be taken up between three Fingers, with the Broth of a Pullet; which Medicines, if need be, must be twice or thrice reiterated.

Rulandus gave thirty drops of Oyl of Juniper with happy success.

Some advise Childing-women to hold an Onion hard between their Teeth, and squeeze it there, swallowing down the Juyce; and bite it so three or four times, still sucking out the Juyce, and swallowing the same: and at last to drink a draught of warm Wine upon it, which presently helps them.

Forestus makes relation of a certain Midwife which received this following Secret from a Jewish Physitian. She took the green tops of Lovage, she stamped them, and strained out the Juyce with the best Rhenish-wine, and gave a draught of it to the Patient.

Angelus Sala commends *Mercurius vita* in this Case, as well as in the Expulsion of a dead Child.

Hereunto add, Sneezing, Fumigations, Fomentations, Liniments, and other Medicines both inward and outward, formerly described in the case of a dead Child.

The following Decoction used by a Country-woman of ours, hath done wonders.

Take Vinegar of Roses eight or ten pints: Bay leaves and Bay berries, of each three handfals: one Rose-Cake cut in bits. Boyl all together, and let her Hips and Legs be a long time together bathed, from her Groyns down to her Feet. Upon the use hereof, the womb hath opened of its own accord, and the After-birth fallen away. To this Decoction may fitly be added, of Myrrh and of the two Birthworts, of each one ounce.

And among other helps, the hand of a Skilful Chyrurgeon can do much, being put into the Womb before the Inflammation or Inflation be augmented. For he laying hold of the After-births, and gently turning them this way and that way, may draw them out, and free the woman from so many Symptoms, and tiresom Medicines.

If the Secundine can by no means be perswaded forth, but stick strongly to the womb, and there putrifie, suppurating things are to be put into the Womb, cleansing things being mingled with them, that as much as is putrified may be by little and little brought forth. To which intent *Rondeletius* commends *Unguentum Basilicum*, especially if it be dissolved in the following Decoction.

Take Leaves of Mallows with their Roots, three handfals; Roots of the two *Aristolochio's* or Birthworts, of each six drams; Linseed and Fenugreek-seed, of each half an ounce: Violet Leaves one handfal; Flowers of Chamomel and the smaller Centaury, of each half a handfal. Boyl all in water, mixing therewith (if there need great suppuration, or reduction to Matter) a little Oyl; but if there be more need of detersion, or cleansing, add a little *Unguentum Egyptiacum*.

Chap. 21. Of Immoderate Flux of the Loches, or Child-bed Purgations.

THe Immoderate flux of Child-bed Purgations, called from the Greek, *Loches*, is not to be estimated from the quantity, or the time of continuance; because that in divers Natures, Age, and Courses of Life, it is very different; but from the ill-bearing of the Woman, and her weakness therefrom arising.

CAUSES.] The Causes of this immoderate Flux, are the over-wide opening of the Vessels, or their rending in hard Travel, or the Violent drawing forth of the After-birth; or a more than ordinary quantity of the Blood, which had been collected in the Veins of the Womb, during the whole course of the Womans being with Child; or the thinness and sharpness of the said Blood, which doth too much open the mouths of the Veins, and provoke Nature to Excretion.

DIAGNOSTICK.] Immoderate Flux of the Child-bed Purgations is known, as hath been said from the strength of the Woman, which is dejected through the exhaustion of her spirits that issue with the Blood; also the blood is clotted, and the Patient loaths all meat, is pained under her short Ribs, feels a distention of her Belly; her Pulse is weak and frequent, her sight is dimmed, she hath noise in her Ears, is subject to Swooning and Convulsions.

PROGNOSTICK.] As all great Fluxes of Blood are dangerous, because Blood is the Treasure of our Life, so the immoderate Flux of the Child-bed Purgations is more dangerous than the rest, because of the Travel which goes before, and weakens the Patient. But the danger is more or less, according to the greater or less quantity of the Blood which comes away, and as the Symptoms are more light or grievous which attend the same; which made *Hypocrates* to say, in the 55. Aphor. of the fifth Section, *If Convulsion or Swooning betides a Woman upon her Feminine Purgations, it's a shrewd sign.*

CURE. The Cure of an Immoderate flux of Blood, consists in one only point, viz. The stoppage of the said Flux. Yet extraordinary care is to be taken, lest that be kept within, which by these Purgations was wont to be carried away, and so prove the cause of grievous Infirmities. And therefore if the Flux do not extremely purge, we must begin with lighter Medicaments, proceeding by little and little, if need shall require, to such as are stronger.

And in the first place, The violent motion of the Blood is to be bridled by an incrassating or thickening Diet, as by Panadaes, Jellies, Rice, Starch, with Calves-foot Broths, Pears, and Quinces boyled, roasted Flesh sprinkled with Juyce of Pomegranates.

Let her have pretty plenty of Meat, but not at once, but divers times one after another. For by this means the Heat and Spirit which in the womb do assist to the Expulsion, are called away to the Stomach, and by that means the Patients strength is restored.

Let her Drink be Water that hath had Iron quenched in it, or Gold, or in which a little Mastich hath been boyled. Then such things are to be used as do revel the Blood into the superior parts, as rubbings and bindings of the upper parts, Cupping-Glasses fastened under the short Ribs on either side.

It is good likewise to bathe the Patients hands in hot Wine, in which *Confectio Alkermes*, or Venice Treacle, hath been dissolved.

Also let her Belly be moderately swathed with a Rowler or Swath-band; because hereby the Vessels of Blood will be pressed together, and the immoderate Flux hindered.

Let Linnen Cloaths be applied to the Loyns, moistned with a mixture of Water and Vinegar, by which the blood contained in the *Vena Cava* is tempered, and the motion thereof hindered.

If the Flux be very immoderate, and weaken the Patient, so that there is danger of death, we must have speedy recourse to stronger Remedies: Among the rest, this following Potion hath commonly good success.

Take Waters of Plantane, Orange flowers and Roses, of each one ounce; Syrup of Corals, or where it is wanting, of red Roses, one ounce: Sal Prunella one dram: Dragons-Blood ten grains. Make all into a Potion.

If the flux do yet continue, a Powder, or an Electuary for divers Doses may be prescribed after this manner:

Take Blood-stone four scruples: Powder of Bole-Armenick red Coral, prepared Pearls, of each one dram: Seeds of Plantane, Coriander prepared, grains of Sumach, of each two scruples. Mix all, and make them into a most fine Powder, of which let her take one dram with a Decoction of Knotgrass and Syrup of Quinces.

Take Conserve of Roses and Comphrey Roots, of each one ounce; Bole armenick, Troches de Carabe and prepared Coral, of each one dram: with Syrup of Coral or of dryed red Roses make all into an Electuary, of which let her take the quantity of a Chesnut, drinking a little of her ordinary drink after it.

Also a Fomentation and an Oyntment will profitably be applied outwardly, made after this manner:

Take Tops of red Mastich or Lentisch, Plantane, Cypress, Olive, and Solomons Seal, of each one handful: red Rose-leaves two pugils, Myrtle-berries one ounce and an half, Cypress Nuts, six: Peels of Pomegranates two pugils: boyl all in Steel-quenched Water and astringent harsh red Wine, and with the strained Liquor bathe the Privy parts, very luke warm, and almost coldish.

Take of the Countesses Oyntment, or Unguentum Comitissæ two ounces; Juyce of Plantane one ounce: work them together into one Oyntment, to be used after the Fomentation.

Also an Injection may be made of the Juyce of Plantane into the Womb, commended by Galen in the Fifth Book of his Method, or the Decoction of the aforesaid Fomentation.

Other Remedies not helping, to open a Vein in the Arm is a present Cure, if the Blood be drawn out in distant spaces of time; for experience hath taught, that many women given over as incurable, have by this means recovered.

And finally, the Disease still remaining, all Medicines prescribed for the immoderate Flux of the monthly Courses, may be used in this Case likewise.

And among the Medicines for immoderate Courses, Cataplasms were propounded to be applied to the Share and Loyns; unto which the following Cataplasm or Pultis may be added, very good for all immoderate Fluxes of Blood, but especially for these Child-bed Purgations.

Take pure Soot from the Chimney not mixed with Dirt, eight ounces: work it lustily with the strongest Vinegar, and make a pultis to be applyed to the Reins of the Back.

And it is here specially to be noted touching sleep, that while the Blood flows plentifully, the Woman must not be suffered to sleep, for many by that means are taken away, because the natural heat retiring inward, causes the flux to be greater. And if sleep in such a case cannot be avoided, some must be always by, of the servants, to feel her pulse, and mark how she fetches her breath.

In a word, if clotters of Blood do settle in her womb, and cause a pain and stretching therein, endeavour must be used speedily to bring it out, lest coming to putrifie, they transmit filthy Vapours to the Brain and Heart, and cause a Fever. Therefore the Childing-woman, if strong enough, ought to walk gently, or stand bolt upright for some time together, or to sit upon the groaning-Chair, as if she had list to stool. And if this suffice not, the clotters are to be dissolved with a warm Decoction of French-barly and a little Oxy-mel or Honey of Roses injected into the Womb. But here we must go warily to work, lest while we bring out the Clotters, the Flux of Blood be afresh provoked.

CHAP. XXII.

Of Suppression of Child-bed Purgations.

THE good and happy success of Child-bearing doth especially depend upon the convenient and orderly flux of the Loches or Child-bed Purgations; seeing the Impurities which have been collected in the Veins of the Womb, during the nine months time of the Womans Belly-bearing, are wont to be avoided by these Evacuations; but if they be suppressed wholly or diminished, infinite Dangers and Calamities arise thereby, viz. Acute Fevers, Phrenzies, Madness, Melancholies, Quinzies, Pleurisies, Inflammation of the Lungs and other swellings, which are for the most part malignant.

CAUSES. The Cause of this suppression or immunitation are, the thickness of the Blood, narrowness or obstructions of the Vessels, which hinder the free egress of the Blood; cold Air heedlessly received into the Womb, which closes the Orifice of the Vessels, taking cold at the Feet, drinking of small cold Drink, Fear, Affrightment, Sadness, and other Passions of the Mind, which withdraw the Course of the Blood from the Womb.

DIAGNOS. This Suppression is manifest of it self, and the diminution thereof is not to be adjudged by the Quantity which comes away, because some Women have more superfluous blood, and some less. But the perfect knowledg thereof is gathered from the supervenient Symptoms, such as are a swelling of the Belly, a pain possessing the nethermost part of the belly, the loyns and groyns; redness of Face, difficulty of Breathing, Perturbation of the Eyes, Shivering-fits, Fevers, Fainting-fits, and other Symptoms related before.

PROGNOSTICK. The Prognostick is drawn out of the Symtoms propounded as supervenient to this Disease; for they being for the most part dangerous, the cause from which they spring, must needs be very dangerous likewise.

Childing-women are freed from the foresaid danger, if some other evacuation happen which may at least in some measure supply the defect of these Purgations, as Bleeding at the Nose, or by the Hemorrhoid Veins: plenty of Urine, with a sooty settling, or plentiful sweating. Or if after some days Lead-coloured, black and stinking matter begin to flow forth. But it is to be feared lest by the corrupt Blood, Ulcers should be bred in the womb.

CURE. The whole Cure of this Malady consists in the provocation of these Purgations, which must be endeavoured by such Medicines as provoke the Course of the blood downwards, and open the Vessels of the womb.

And in the first place, Emollient, Purging and Opening Clysters are to be administered, made after this manner:

Take Roots of Marshmallows and Water-Lillies, of each one ounce: the long and round Birthwort of each three drams; Leaves of Mallows, Marshmallows, Pellitory, Mercury, of each one handful: Linseed, and Fenugreek-seed, of each half an ounce; Flowers of Chamomel and Elder, of each two pugils: Boyl all to a pint. In the strained Liquor dissolve Oyl of Dill and Lillies, of each one ounce: Hierasimplex, half an ounce: Unguentum de Arthanita one dram. Mix all into a Clyster.

Let her Thighs be rubbed downwards; Let the Toes of her Feet be tied till they ake again; let divers Cupping-glasses be fixed to her Groyns and Hips, and let some of them be scarrified.

If these means suffice not, open the veins about the Knees, or of both the Thighs, or the Hemorrhoid Veins, if Nature seem to encline that way.

If a Fever be caused by suppression of these Purgations, a Vein must be opened in the Arm, as shall be said in the Diseases of Women in Child-bed.

This following Fomentation may be applied to her Belly beneath the Navil, and to the Privy Parts.

Take Roots of Marshmallows, Lillies, Briony, Angelica, and Birthwort round and long, of each an ounce; Leaves of Mercury, Mugwort, Pennyroyal, Savin, Calaminth, of each one handful; Linseeds and Fenugreek seeds, of each an ounce; Flowers of Chamomel, Melilot, Elder, Tansie, of each a pugil. Beat them and cut them according to art, and put them into two bags; which boyl in Fountain-Water, and apply by course one after another.

After Fomentation anoint the afore said Parts with Oyl of Lillies, Sweet-almonds and Sefamum, adding thereto a little Saffron.

Hereunto may be added such Pessaries and Fumigations as have been set down in our Chapter of Suppression of the Courses, beginning with the most gentle.

Let her drink a Decoction of opening Roots, Cinnamon and red Vetches, with a little Saffron.

Or,

Take Opening Roots, of each two drams; Leaves of Betony, Endive, Maiden-Hair, of each a handful; Schœnanth one pugil; Annis-seed and Fennel-seed, of each one scruple; red Vetches a spoonful. Boyl all to a pint and an half. To the strained Liquor add Cinnamon-water two drams; Syrup of the five Opening Roots three ounces. Let her take four ounces twice a day.

Before the Fever be encreased, we may sometimes give Troches of Myrrh one dram; with White wine or Fennel-water.

Forests useth this following Decoction, though there be a Fever:

Take French Barly one handful; Liquoris scraped half an ounce; Schœnanth one dram and an half; Boyl all to a pint for three Doses.

For the weaker he causeth one dram of Schœnanth to be boyled in Chicken-broth, which he gives the Patient to drink.

Also a Purgation may be convenient, seven or nine days after she is delivered, of the Infusion of Rhubarb, Agarick or Senna, or with a Laxative Broth made of opening Herbs and Roots with Senal, or with an ounce and an half of Manna dissolved in Broth.

Chap. 23. Of Gripings after Child-bearing.

GRipings do so frequently betide Women in Child bed, that very few women are free from them: But they are not wont to seek to the Physitian for these Pains, because within two or three days they go away. But if they happen more sharp, and of longer durance than ordinary, they are forced to send for the Physitian, who before he prescribe any thing, must consider the Causes.

The chief Causes of Gripings and Pains after Child-birth, are the plenty of Blood, its thickness, sharpness, and narrowness of the Vessels. For the Veins of the Womb having for nine months forborn their usual Evacuation of Blood, and the Blood being gathered in great quantity, and by its retention

Retention becoming thick and sharp; while it goes through the narrow passages, it causeth pains, which return by Fits, as often as the Womb endeavours a new expulsion of Blood; which being over, they cease till such time as other blood doth seek its way forth.

Sometimes these Gripings are caused by Winds, or by Cold received into the Womb, but not so often.

These Pains are differenced from others which are wont to afflict the Belly by their continuance, and by the distances of holding up, which they observe according to distant fits of the bloods issuing forth: and the Women themselves can easily distinguish these pains from all others.

Thick Blood is known by clotting, but the thin blood by its tenuity, fresh colour, or yellowish.

If the Pain spring from wind, it is more wandering, being sometime in one part of the Belly, and sometimes in another; neither doth it observe the distances in which the Blood issues. If cold Air have entred the Womb, it may be known by a relation of what hath been acted about the sick woman.

These Pains are not dangerous, but for the most part exceeding troublesom: therefore must be removed or mitigated as soon as may be.

The Cure of these Gripings ought to be directed to these ends; viz. That the Vessels of the Womb be made wider, the Blood thinner, and its sharpness mitigated. All which may be accomplished by these following Medicaments.

And first of all, let the Patients Belly be gently swathed, that her womb may settle, and not be moved this way and that way, as often falls out after Child-birth, by reason of the sudden Evacuation.

Then give her three ounces of Oyl of sweet Almonds new drawn, with an ounce and half of Syrup of Violets, and two ounces of Hippocras.

Let Clysters be cast in of Milk and Sugar, with the Yelks of Eggs.

Or they may be made of a Decoction of Chamomel-flowers and Mugwort in Pullet-Broth, adding Oyl of Lillies, and the yelks of Eggs.

Anoint her Belly with Carminating or Wind-expelling and opening Oyls, as Oyl of Dill, Rue, Jasmine; or with this following, which being of great efficacy, ought to be made in time convenient, and kept in the Apothecaries Shop for such occasions.

Take Roots of round Birthwort, Orris and Peony, of each one ounce; Cypress Roots half an ounce; dried Leaves of Mugwort, Feverfew, Origanum, Calamintb, Peniroyal, Dictamnus Cretenfis, Wormwood, Savin, Rue, Betony and Sage, of each one handful; Flowers of Rosemary, Stæchados, Lavender, Chamomel, Dill, St. Johns-wort and Elder, of each half a handful; Bay-berries and Juniper-berries, of each half an ounce; Seeds of Cummin, Rue, Peony, Carrots, and Agnus Castus, of each three drams; Cloves, Nutmeg, Cinnamon, Ginger, of each two drams; Storax and Myrrh, of each one ounce. Let all being beaten and cut, be steeped in six pints of old Oyl, adding a little Whitewine. And put them into an Earthen Vessel close stopped, the space of a week; and then boyl them over hot Embers the space of four or five hours; then let the Oyl be strained out, and reserved for use. If the foresaid Oyl be wanting upon occasion, let the foresaid simples boyl in equal portions of Oyl and Whitewine, till the Whitewine be consumed; then let the Oyl be strained out.

Also a Fomentation may be made of the Decoction of Mugwort, Bawm, Bay-leaves, Calamintb, Carrot-seed, Cummin and Caraway-seeds, Flowers of Cheiri and Chamomel, in Water, White-wine or Milk.

Or the following Cataplasim may be applied;

Take three or four Onions well boyled in water; beat them in a Mortar, and put thereto Seeds of Line and Cummin beaten, of each one handful: As much Chamomel-flowers: Barly-Meal as much as shall suffice to make all into a Pultis. And if need be, add a little of the Water wherein the Onions were boyled. Spread it upon a Cloth, and apply it warm to her Navil.

It is likewise profitable to apply the Skin of a Weather newly flead off, while it is warm, to her Belly. For this kind of warmth is very near of kin to our Natural heat, concocts and mitigates the cause of the pain; also it hinders the Skin of the Belly from gathering into wrinkles.

These following Medicines may be given inwardly:

Take Carrot-seed powdered one dram; Whitewine three ounces. Mix them: Give it warm twice a day. Or,

Take Nutmeg, Annis seed, Cinnamon, of each one scruple: mix them into a powder to be taken in Whitewine; or give one scruple of Oyl of Nutmegs in Broth. Or,

Take Date and Peach kernels, of each half a dram; Nutmeg four scruples; Powder of Diamargaritum Calidum two drams, Annis-seed one dram, Cinnamon two scruples, Saffron ten grains, Sugar the weight of all the rest. Make all into a most fine Powder, whereof give two drams in Wine twice or thrice a day, if the pains are much.

Foreſtus gave a Decoction of Chamomel Flowers in Beer, or a Decoction of Mugwort and Chamomel in Pullet-Broth, with good ſucceſs.

It's good preſently after ſhe is brought to bed, to give her the Broth of an old Cock three days together early in a morning while ſhe is faſting, with a little Cinnamon and Saffron.

The following Powder taken preſently after the delivery of a Woman, doth wonderfully preſerve her from Gripping; inſomuch that it is thought, if it be given a Woman after her firſt Childing, ſhe will never after in her following Lyings-in, be troubled with theſe Gripes.

Take the greater Comfrey Root dried one dram; Peach Kernels and Nutmeg, of each two ſcruples: Amber half a dram; Amber-greece half a ſcruple; Make all into a Powder; of which let her take one dram in Whitewine, or if ſhe be feveriſh, in Broth.

For her ordinary Drink, let her uſe a Decoction of Mugwort with Cinnamon.

If the Gripings be cauſed by Cholerick and ſharp humors, they are cured much after the ſame manner that the Cholick is cured, when it proceeds from Choler. As for example:

Take Syrup of Violets and Borrage, of each one ounce. Mucilage of Quince-ſeeds drawn out with Violet-Water half an ounce; Water of Borrage and Scorzonera, of each three ounces. Mix all, make thereof a Julep for two Doſes. Or,

Take Oyl of ſweet-Almonds two ounces; Syrup of Violets one ounce; Borrage-Water half an ounce. Mix all for a draught.

External Medicines muſt likewiſe be uſed, ſuch as are Laxative and Emollient, which do likewiſe by one and the ſame labour eaſe pain.

Oftentimes, after they are brought to bed, Women are pained in their Groyn, by reaſon of their wombs being gathered together like a ball in their Groyn. It is cured by applying to their Navil a Plaſter of Galbanum and Aſſaſcetida, in the miſt whereof ſome grains of Muſk muſt be put.

CHAP. XXIV.

Of Acute Diseases of Women in Child-bed.

WHat we ſaid before touching the Acute Diſeaſes of Women with Child, we may now repeat touching the Acute Diſeaſes of Women in Child-bed; viz. That they have the ſame Eſſence of the ſame Signs, with the like diſeaſes in women which are not with Child; and in men. So that we ſhall refer the Reader for the Theory of theſe Diſeaſes, to their proper Chapters.

D I F F E R E N C E.] Now the Acute Diſeaſes are for the moſt part continual Fevers, both Eſſential, as *Synochus putrida*, a continual Tertian and the reſt; and alſo Symtomatical, which accompany inward Inflammations, as the Pleuriſie, Inflammation of the Lungs, Inflammation of the Liver, Phrenzy, and ſuch like.

Yet there is a peculiar ſort of Fever, which befalls almoſt all women in Child-bed, which is called by them the Fever of their Milk, which is wont to befall them about the third or fourth day after they are brought to bed, when their milk begins to encrease in their Breasts; and it ariſeth from the reflux of the blood from the Womb to the Dugs; and the motion and agitation thereof. Which kind of Fever is reckoned among the Diary Fevers of the longeſt durance; neither needs it any Medicines, becauſe within three or four days, viz. about the ninth after her delivery, it is finiſhed by ſweat. It is diſtinguiſhed from putrid Fevers, becauſe commonly it ſeizes the woman about the fourth day after her being delivered, and her Dugs begin to be filled with milk, and to be troubled with hardneſs, pain and heat; with heat and heavineſs in her Back and Shoulders; alſo her Child-bed Purgations flow dully, which ſeldom is ſeen in Putrid Fevers.

C A U S E S.] Now putrid Fevers do befall Women in Child-bed from three cauſes, viz. Suppreſſion of their Child-bed Purgations or diminishing, by the heaping together of bad Humors during the time of their Belly-bearing, which were agitated by their Labors, or by Errors in their Diet. Some add immoderate Flux of the Child-bed Purgations, which is rather a ſign of the ſecret badneſs of humors cauſing the Fever, but cannot be it ſelf any cauſe thereof.

In ſuppreſſion of the Child-bed Purgations, the Blood and vitious Humors which are collected during the whole time of her going with Child, do flow back again into the greater Veins, and there putriſie, and ſometimes are carried to the Liver, Spleen and other parts, in which they raiſe Inflammations; or if they abide in the Veins of the womb, they putriſie, and ſo cauſe a Fever in thoſe Women which were before in perfect health.

But if (the Child-bed Purgations dully flowing) a Fever ariſe, it comes either from ſuperfluity of Choler, or from Errors in Diet. Evil humors agitated by the Labors and pains of Travel, do eaſily inflame, and putriſie and ſtir up a Fever. Errors of Diet may happen divers ways: And firſt in point of eating, in which women that lie in, are wont to be very faulty, ſtopping themſelves with plenty

plenty and variety of Dishes, which cannot be by them digested, but causeth putrefaction in their Bodies. Another error is committed when Childing-women do unadvisedly expose themselves unto the cold Air, especially while their Milk-fever is in its vigor, which is wont to be terminated by sweating and transpiration, which is hindered by heedless admission of the cold Air; whence it comes to pass, that the Fever which of itself was void of danger, and would in a few days have ceased, is changed into a dangerous putrid Fever.

There is yet another frequent Cause of the Fevers of Childing women, *viz.* When the After-births are not wholly cast forth, but some portion remains behind. This happens principally in the Womb-liver, when a part thereof sometimes annexed to the Womb, and left there, doth putrefie; which makes the Child-bed fluxes to come forth greenish, stinking, and Carrion-like; and if within few days it be not separated from the womb and excluded, it casts the sick woman into great danger of death, seeing it may mortifie the Womb.

DIAGNOSTICK. If Clotters of Blood, or any other preternatural thing, shall remain in the Cavity of the Womb after Child-bearing, it may thereby be known, because the neck of the Womb remains soft and open, neither is the inner Orifice thereof shut, neither is the womb drawn upwards; and whereas when all goes well after Child-birth, the womb is drawn upwards, and its neck and orifice are quickly shut. An Example hereof is propounded by Dr. Harvey, in his Treatise *de Partu*, concerning a Woman, who having a Malignant Fever, and being very weak, miscarried; and after exclusion of a perfect Child, and uncorrupted, yet being very weak, with a creeping Pulse and cold Sweats, she was ready to give up the Ghost. He feeling her womb, perceived the Orifice thereof lax, soft, and very wide; and putting in his fingers, he drew forth a Mole as big as a Gooses Egg, having certain holes in it, containing a clammy, black and stinking putrefied matter, and the Woman was soon freed from the aforesaid Symptoms, and quickly recovered her health.

It happens likewise in some Women that the Orifice of the womb presently after their delivery, is so shut up, that the blood contained within the Womb, suddenly clotting and putrefying, causeth most sad Symptoms; and when no Art can bring it forth, present death follows. Yet Dr. Harvey relates in the place aforesaid, the History of a Woman cured by him of this Disease. The Lips of the Water-gate were swelled, and very hot; the mouth of the womb was hard and close shut: He opened it a little with an Iron Instrument which he forcibly put in, so as it would admit an Injection made by a Syringe; and thereupon, clotted, black and stinking Blood, some pounds in quantity, came away; by which means the sick Woman had present ease.

PROGNOSTICK. The Prognostick of these Fevers herein only differs from the Prognostick of such like Fevers which happen to those that are not in a Childing-condition; because through the Labours of Child-birth, the strength of the Patient is more debilitated; and by reason of the Child-bed Purgations suppressed, there is a greater redundancy of humors in the Veins, and in both respects the Party is in greater danger.

The Decision of that famous Question, *Whether the Computation of the days of the Womans sickness ought to be made from the beginning of her Disease, or from the day in which she is delivered of her Child*, makes much to clear the Prognostick of this Disease, especially to foretel the Crisis. Which Question we shall therefore thus briefly determine: If the Birth of the Child were natural, attended with no grievous Symptoms, and the Child-bed Purgations were as they should be, and the Fever come some days after, the account ought not to be made from the day of the Childs birth, but from the day the Fever began, which was provoked by some other preternatural Cause, *viz.* Evil humors lurking within the Body, or from some external Cause. But if the Child-birth were hard and beside the Course of Nature, and the Fever arose after three or four days, we must reckon from the day of the Child birth, because then the whole order of the Body began to be overthrown, and the humors to be disturbed, which was followed by the Fever. So in grievous wounds of the Head especially, though the Fever come not till after the fourth or fifth day, yet the account is wont to be made from the day of the Wound received, because the humors began then to be in a commotion, and to be disposed to cause a Fever.

CURE. The Cure of these Fevers differs not from the Cure of other Fevers, unless in point of those great Remedies, Blood-letting, and purging; in the administration whereof there is no small scruple, which we shall briefly endeavour to remove.

As for letting of Blood in Acute Diseases of Women in Child-bed, the disagreement of Authors is so great, by reason of the contrary Indications on the one side, and on the other, that we can scarcely find two of the same mind. We shall briefly in these following Theorems or Maxims, propound that Opinion which cometh nearest the mind of the wisest Authors, and is in the course of Practice most successful.

An Acute Disease befalls a Child-bed woman, either in the beginning or in the middle, or in the end of her Lying-In.

If it happen in the beginning, and the woman be plentifully purged, there must be no other evacuation

cuation of Blood than that which is directed by Nature when she rightly and conveniently performs her operations. But if the Child-bed Purgations are suppressed, or flow sparingly, let the inferior Veins be opened, and take a good quantity of Blood away: because at that time the Child-bed Purgations of Blood ought by the appointment of Nature to be plentiful.

If an Acute Disease happen in the middle time of her Lying-in, two things are to be considered: The one is, Whether the Morbifick matter be contained in one particular place, or if it be dispersed through the Veins. The Second, Whether the Woman hath been conveniently purged or not, in regard of quantity. If the disease proceed from matter scattered abroad, as in Fevers, and the Woman hath not been fully purged, the lower Veins ought to be opened: because both the Morbifick matter will be diminished, and her Natural flux will be provoked. But if the Woman have been sufficiently purged, and the Disease get ground, and the Natural Evacuations have not been sufficient for the Disease, the inferior Veins must be opened notwithstanding; and so much Blood must be taken away, that by two Evacuations that may be accomplished which the Disease requires, according to the Doctrine of *Galen*, in the Ninth Book of his Method, Chap. 5.

If the Fever be very high, and great heat vex the Patient, let that be done which we shall presently declare; which ought to be performed when the Disease ariseth of Matter driven into some corner, and there putrifying.

In a particular Acute Disease, as the Pleurisie, Inflammation of the Lungs, Quinsie, and the like, we must mark whether the Fluxion be only beginning, so that the Disease is only ready to seize upon the Patient, or is in its beginning, and very little Blood be collected in the part. For then the inferior Veins are to be opened, that revulsion may be made to such opposite parts as are at greatest distance from the part affected, and by that means that preposterous motion of Humors may be stopped. But if the fluxion be already in good measure begun, and an Inflammation bred which proves very troublesome, whether the Woman be sufficiently purged or not, the Superior Veins are presently to be opened right against the part affected, because such an Evacuation draws Blood out of the part affected. But if the inferior Veins should be opened, which are neither next the part affected, neither can Evacuate there from, both the strength of the Patient will be weakened by the evacuation, and that matter which is by Nature driven into a corner, and subdued, will not be thereby diminished. And so you must either draw all her Blood in a manner out of her Veins to reveal the matter of the Disease from the part affected; or the Woman will be killed by the Disease before sufficient Revulsion be made. Neither need we fear, lest by taking Blood from the upper Veins, we should draw the Course thereof from the womb, because in such Causes the superior parts of the Body do abound with Blood. And although much Blood be taken away, yet are not the Veins so emptied, that they should be forced to draw new Blood from other parts. Yet for the greater Caution, it will not be unprofitable before blood be taken from the superior Veins, to cause the Thighs to be lustily rubbed, and presently after to tie them with bands so hard, as to pain the Woman, which must abide so bound till the bleeding be over, and a little after they may be loosened; and now and then Cupping-glasses must be fastened to the same parts, or at least they must be again well rubbed. So we may procure an Evacuation of the matter offending, and yet preserve the Natural course of the blood towards the Womb.

The same course is to be taken in vehement and Burning Fevers: For although the matter offending be dispersed through the Body, yet is the Burning heat so great about the Heart and Bowels, that it cannot be so well extinguished by the opening of a small and far distant Vein, as by the opening of a nearer and greater, such as the Vein called *Basilica*.

This Method of Curing may be observed not only in Child-bed women, but in other women who are taken with Acute Diseases, and have their monthly Courses upon them.

If in the end of a womans Lying-in, an Acute Disease befall her, the same Course must be followed as in the middle, the same conditions being observed; observing this for a Rule, that by how much a woman is further from the beginning of her Lying-In, by so much more safely may the upper Veins be opened; but the nearer she is to the beginning, yea, even in the middle, we are to open those Veins with the greater premeditation. And if the Disease be not importunate, nor the sharpness thereof require such a thing, and the Natural Purgations be copious, we must wholly abstain. But if the Purgations be scanty, we must open the inferior Veins to supply that which is wanting in the Evacuations. But if the contrary shall happen, let us follow the Rule which we prescribed to be followed, in the urgency of an Acute Disease.

The use of Purging in Childing-women that are held with Acute Diseases, shall be comprehended in these following Maxims.

While the Child-bed Purgations do naturally flow, a Purge is never to be administered; for it is to be feared lest Nature be diverted from her Business.

But if the Child-bed Purgations are not kindly, we must consider whether their fault consist in Quantity, or in Quality.

If they offend in Quantity, so as to be too little, so that the woman be purged either not at all, or not sufficiently: After all remedies fit to procure these Purgations, have been given in vain, and the Morbifick Matter appears digested, eight, ten, or twelve days being past since she was brought to Bed, according to the more or less urgency of the Disease, she may be purged gently, wholly abstaining from all stronger Purgatives.

If other Purgations offend only in Quality, so that a white Flux, or some other unnatural colour do proceed from her, the Matter being ripe, she may in the last part of her Lying-in be safely purged.

But this must evermore be generally observed, That by how much the longer a Childing-woman is distant from the day of her bringing to bed, by so much the more safely she may be purged, and contrariwise: For experience hath taught us, That Women wanting their Child-bed Purgations, if after the seventh or ninth day they are taken with a looseness, they commonly scape. But if the Looseness seize upon them on the first days, viz. on the second, third, or fourth, for the most part they die.

And so have we finished the Cures of Womens Sicknesses; All Praise and Honour be given to G O D therefore.

The End of the Fifteenth Book.

THE
Sixteenth BOOK
OF THE
PRACTICE
OF
PHYSICK.

*Of Diseases of the Joynts, and Rheumatick Pain of
the whole Body.*

THE PREFACE.

THough all Diseases of the Joynts depend upon the same Causes, differing only in respect of the place affected, and are wont to be cured with the same Medicines; yet is there some difference between the Sciatica or Hip-Gout, and the pains of other Joynts, by reason of the structure and largeness of those part, of which the Huckle or Hip bone is articulated and made up; in respect of which it requires some diversity in certain Medicines; therefore it is that I have resolved to treat of the Sciatica by itself. And because the Rheumatick pain incident to the whole Body hath great Affinity with the running-Gout which afflicts only the Joynts, I have thought good to annex the Explication thereof in this place; so that this Book will consist only of Three Chapters: Of which, the First will treat of the pains of the Joynts in general. The Second, Of the Pains of the Huckle-bone, called Sciatica. The Third, of those Rheumatick Pains which seize all Parts of the Body.

Chap. 1. *Of Pain in the Joynts, called Arthritis,
or the Gout.*

Arthritis, or the Gout, is a pain in the Joynts which comes for the most part by fits, stirred by an Influx of Humors into the said Joynts.

The parts pained are, Membranes, Tendons, Nerves, and all the Nervous parts that are near the Joynts, which are stretched by the Humor which flows into them, or by their sharpness are pricked and twitched; but the Ligaments which spring out of the Bones are void of sense. Now the Humors which cause the Gout do seldom flow into the very Cavities of the Joynts, and that only in an old Gout, and where the Cavities are wider than ordinary, as it happens in an old Sciatica, in which sometimes the Thigh-bone falls out of its place, the Ligaments and other parts binding the Joynts together, being loosened, and then the Cavity of the Joynt is filled with strotty kind of flegm, as we see in Hypocrates, Aphor. 59. Sect. 6.

It is wont here to be demanded, why the Humors flowing into Nervous and Membranous parts, and distending and twitching them, they should not cause a Convulsion? We answer, that the parts affected in the Gout are chiefly Membranes, which being no instruments of motion, they cannot cause a Convulsion, though never so much stretched or twitched. And although the Tendons and Nerves ordained for motion should be likewise pained, yet do they not cause a Convulsion; because to make a Convulsion, the Muscles must be drawn back to their Head, and that retraction ought to be made by a contraction of the Nerves which are inserted into them; but when they are gone out from the Muscles, or are come unto their extremity, though they be distended, yet can they not contract the Muscles.

D I F F E R E N C E. Authors do commonly make four sorts of Gouts, according to the diversity of the Joynts affected; *Chiragra*, or the Hand-gout, when the pain is in the Hands; *Sciatica* and *Ischias*, when it is in the Hip; *Gonagra*, when it is in the Knees; and *Podagra* or the Foot-gout when it is in the Feet. And the pains of the other Joynts go under the common name of *Arthritis*: though *Pareus* have imposed proper names upon every one of them drawn from the parts affected; calling the Pain in the Joynts of the Jaw-bone *Syagoniagram*; in the Neck *Trachelagram*, in the Back-bone *Rhachysagram*; in the Shoulder *Homagram*; in the Elbow *Pechyagram*. But these Names have not been entertained by Practitioners. Therefore its sufficient to refer the Pains of those Parts to the general names of *Arthritis*.

There are besides, other differences of the Gout; as that some Gouts are general, occupying all, or most of the Joynts of the Body; others particular, residing only in some one Joynt: some are ingrafted and Hereditary from the Parents; others are adventitious caused by external Causes and Errors in Diet.

Now the humors which breed the Gout, may have their Course not only into the Joynts, but sometimes also in other parts of the Body, as the Head, Teeth, Sides, yea and the internal parts, as the Liver and Spleen, and stir up divers Pains in these parts, which Pains are not to be termed the Gout, though they are caused by the same matter which causes the Gout.

Again, all pains seated in the Joynts merit not the Name of Gouts, for sometimes there are swellings in the Joynts, especially in the Knees, from which pains arise, occasioned by thick, flegmatick, and Melancholick humors, which pains continue very long, but are not to be reckoned among the Gouts, but have a distinct Nature of their own. Which difference will more clearly appear by the different Characters of the Gout, which we shall describe in our Diagnosis thereof, that is, in the Art of discerning the Gout from other Diseases, by certain signs and tokens.

CAUSES. The next immediate Cause of the Gout is a serous or wheyish Humor, either by its quantity stretching those sensible parts which are about the Joynts, or by its sharpness twitching the same. That this matter is wheyish, is hereby known, because thick Humors could not so easily flow into the Joynts, and they would make a more visible swelling in the Joynts, which is wont to be very little yea in the beginning there appears no swelling at all, though there be a most bitter Pain; and that the Tumor which is in the Gout never comes to suppuration or ripeness of matter, which often happens in other thicker humors, if they have never so little Blood mingled with them. But in the Gout the blood is drawn to the Joynts, as appears by the Inflammation of the Parts; yet there never happens any suppuration or growing to a mattery Head, because Serosities or wheyish Humors rule the roast, and they hinder Suppuration.

But this wheyish Humor is seldome pure and sincere, but hath other Humors or their serosities and thinner parts joyned with it; whereupon great varietie arises, according to the greater or lesser Acrimony of the Humors mixed with the wheyish Humor, according to which the pain is more or less; the Tumor is sometimes notably great, and sometimes not visible; some are of a red colour, others yellow or white; in some the malady is soon ended, in others it continues long; sometimes a mighty and fervent heat possesses the parts, otherwhiles little or none is discerned; sometimes hot things laid on do good; otherwhiles they do hurt, and cold things help. Howbeit, it cannot be denied but that the wheyish Humor may of it self have more or less Acrimony, according as it hath more or less Salt mixed with it: for seeing the serous or wheyish humor is wont to dissolve and drink up those Heterogeneous Salts which are multiplied in the Body by reason of the multiplicity of meats we use (whence it is that all the serum or wheyish humor in us is Salt) according as this Humor is more or less salt; and according as the Salts mixed therewith have more or less sharpness, more or less pain is wont to be caused.

And because in the Gout, as in every Fluxion, four things are considered, the matter flowing, the part sending that matter, the part receiving the same, and the ways by which the fluxion is made; seeing we have spoke of the matter flowing, we are now to speak of the other.

Touching the part sending the humor, there is disagreement among Physitians. *Fernelius* would have all the material cause of the Gout (which he takes to be thin and Flegmatick) to flow from the Head; not from the Brain it self, (whose Excrements are either voided by the Nostrils, or flowing through

through the Palate, are driven to the Mouth, Throat, Wefand or Stomach; but from the external part of the Head, situate without the Skull. For seeing very many Veins derived from the external Jugu-lars do run thither. he says they do there lay down their thin and wheyish Excrements; and seeing the Skin of the Head is thick and compact, and the Humors cannot easily breathe through the same, in process of time they grow there to a quantity, and as he conceives from thence they flow through the surface of the Body, under the Skin, into the Joynts. But others do conceive, That the Head is the Fountain of the flood of Gouty Humors, but they conceive those Humors flow from the inner parts of the Head, viz. From the Brain. Finally others there be that give sentence, that these faulty Humors do flow from the Bowels contained in the lower Belly, namely, from the Liver, Spleen, womb and others, and also from the whole Body, through the Veins and Arteries into the Joynts. All which opinions in my Judgement are partly true & partly false. We judge they are true, in that they say the humors which cause the Gout do flow from the Head by the inward and outward parts, and from the Bowels and the whole Body by the Veins and Arteries. And false we say they are, because they say that only the internal parts of the Head, or only the external, or only the inferior Bowels do furnish the Gouty Humor. For seeing the whole Body is passable to and fro by humors, all parts of the Body may send their superfluities to the Joynts, if they be disposed to receive them. Now that disposition of the Joynts which makes them fit to receive a Fluxion of Humors (that I may take this occasion to open the condition of a receiving-part) is their weakness, either Native from the Parents, or arising from other Preternatural Causes, which we shall speak of by and by. Seeing therefore it is established by Physicians as a most sure Maxim, That the stronger parts of the Body empty their Excrements into the weaker, we may avouch, That all the parts aforesaid may discharge their excrements upon the Joynts, if they being weakned, cannot sufficiently resist the same: And that the Opinions aforesaid may be severally refuted. *Fernelius* indeed doth clearly enough demonstrate, That humours collected without the Skull, do flow upon the surface of the Body, and under the Skin creep into the Joynts, seeing sometimes the pain begins in the Head, goes thence into the Neck, thence to the Shoulders, and at length into the Joynts. But that the Humors do never flow from other places and parts into the Joynts, he no way proves, neither is any man able to prove after him. In like manner, they which say that such Fluxions come only from the Brain, seem to contend against Sense; Forasmuch as those parts which compass the Joynts about, do receive Veins and Arteries, by which blood is brought unto them to nourish them withal, why may not also the wheyish Humor collected in the greater Vessels be carried unto the same parts by the same ways? *Galen* hath taught this precisely, in his Comments upon the Aphor. 10. Sect. 3. where he shews, That in the Knobs and Pains of the Joynts, the profound parts of the body are purged, the vitious humors being driven from the principal parts of the Body into the Circumference. This is seen by the Fever which is oftentimes raised in the beginning of the Gout; for it is caused by wheyish Excrements contained in the Veins, put into a commotion and working, when Nature sets her self to expel the same; and seeing she cannot drive it all forth, she discharges the same into the weaker and Ignoble parts. Also the third Opinion, which *Sennertus* defends, is void of reason, and is herein faulty, because it denies that Gouty defluxions do ever come from the Brain. For seeing all parts of the body both inward and outward, do receive Fluxions from the Brain, how can the Joynts be free from them? And if Humors causing a Catarrh do often flow by the Veins and Arteries, whence Rheumatick Fevers daily arise; and the Humors contained in the Veins and Arteries (as *Sennertus* himself affirms) do easily flow unto the Joynts, it is a clear demonstration, That a Fluxion is made from the Brain into the Joynts. Also plentiful pissing declares that humors flow from the Brain through the veins, when the said pissing is caused by some commotion of the brain by reason of long abiding in the Sun, or in a very cold Air; for then the wheyish humors contained in the brain are agitated by those Procatarctick Causes, and driven into the veins and Arteries, through which they flow unto the Kidneys and the Bladder, and thence comes so plentiful making of Water.

The next and immediate internal cause of the Gout hath hitherto been sufficiently expounded; now let us proceed to the external and Procatarctick causes or occasions thereof: which we may for clearness sake distinguish into three Tribes or Ranks. The first Tribe is of them which afford matter convenient to breed the Gout. The Second is of those which do weaken and loosen the Joynts. The Third is of them which promote the Flux of the Morbifick humor into the Joynts.

To the first Tribe are referred all things which encrease raw and wheyish humors, or any bad humors whatsoever: as meats of gross substance, hard to be digested, and such as afford many Excrements, frequent Gluttony and Drunkenness, immoderate Carnal Embracelements, which is the reason the Gout is called the Daughter of *Bacchus* and *Venus*; idleness and a sedentary life, and intermission of such exercises as men have been formerly accustomed unto; long sleep and unseasonable watching, intermission of such natural and artificial Evacuations as men have been accustomed unto; Fear, Sadness and continual Care.

To the second Tribe are referred vehement motion and Labour; frequent use of carnal conjunction, especially of that which is celebrated standing; Refrigeration and Humectation of the Joynts; frequent Bathing, Contusion, Luxation and Fracture of the Joynts.

To the Third Tribe are referred, Cold Air squeezing out the Humors, and Heat melting, dissolving and agitating the said Humors, and opening the secret passages; meats of a fervent and salt nature which attenuate the Humors; thin and strong Wine; Immoderate exercise, unbridled Lechery, vehement anger, and other Immoderate passions of the Mind.

SIGNS. The Signs do either foretel the Gout at hand, or declare the same to be present.

Signs of the Gout at hand; a Sense in the Joynts more exquisite and quick than ordinary, so that the lightest things will hurt them: As for Example, the hard setting of a new shoe, long walking, a small blow, or a light hitting against a stone, or some other hard thing. A Fever commonly ushers in the Gout, which is caused by wheyish Humors, and others contained in the Veins and Arteries, being disturbed and agitated, while Nature endeavours to expel them to those less noble parts. But the nearer approach of the Gout, and its beginning as it were, is signified by a stupidity and sense of crawling Pismires in the Joynts, and a kind of unusual heat felt in them.

The Gout is known to be present by an actual pain tormenting the Joynts, which commonly is attended with redness and swelling; which if it appear not at the very first, yet is it seen presently after. The pain doth usually seize upon the great Toe, especially on the left foot, and oftentimes it spreads it self from thence into other Joynts. The Fever which comes before the pain, doth sometimes continue; and sometimes it goes not before, but comes together with the pain.

The Signs of the Causes are likewise to be considered; For although the humor causing the Gout be principally wheyish, yet it is needful to know what other humors are mixed therewith, that we may fit our medicines thereunto.

And in the first place, Choler abounding with the Wheyish humor, is known by a vehement and cutting pain, a small swelling, a reddish or palish colour, great heat, and the Fever intense and persevering in its state or height; thin Urine, yellow and reddish; cold things help, and hot things hurt.

Signs of Flegm abounding with the Whey are, a softish and somewhat loose swelling of the parts affected, which if a man press with his Finger, there remains a pit; the pain is not so great, Urines are thick and troubled; Cold things hurt, and hot things help; little or no heat is felt; the colour is white, little differing from the Natural colour of the part.

Signs of Melancholy abounding, are an obscure colour of the part like Lead, deep pain, a thin and watry Urine, a weariness of the whole Body, and the temper thereof inclining to Melancholy.

PROGNOSTICK. As for the Prognostick, The Gout is no dangerous Disease, but very troublesome by the vehemency of pain, and of very long continuance; so that for the most part it accompanies a man during his life to his old age; yea, and it doth cause some to live long, because Nature at certain seasons drives unto the Joynts vitious Humors, which might cause other Diseases; and by so doing frees the nobler parts of the Body from bad humors.

Yet doth it often fall out in weak Bodies, or such as are decayed with Age, that when Nature can no longer expel such Humors as are collected in the inner parts of the Body, deadly Diseases do thereupon arise; as most sharp Fevers, Inflammations of the Bowels, Apoplexies, Convulsions, Phrenzies, Difficulty of Breathing, and inability to breathe unless sitting upright, Panting of the Heart, and other most grievous Infirmities.

Although a disposition rooted in the Bowels tending to breed Goutish humors, and Natural weakness of the Joynts cannot be perfectly taken away; yet may the Invasions of the Gout be very much retarded and kept off; so that some only by abstaining from Wine, others by usual purges frequently repeated, have kept themselves for many years free from the Assaults of this Disease.

Hypocrates in the Second Book of Predictions, affirms, that many Gouty persons may be cured, distinguishing them from such as cannot be cured, in these words; *Touching the Gout, this I say; All that are aged, or have stony knots about their Joynts, or live miserably, being costive, cannot be cured by Art of Man that I know of. Such are well cured by a Dysentery, when it seizes upon them; and by other Fluxions of Humors to the Inferior parts. But he that is young, and hath no stony knots about his Joynts, and lives accurately, being inclined to labour, and having a Belly well inclined to stool: this man having a Skilful Physitian may be cured.*

An hereditary Gout may well be accounted incurable.

If the Veins of Gouty persons do swell with black blood, their Gout leaves them; out of *Avicenna*. Because the Humors which were wont to flow into the Joynts, are derived to the external parts of the Skin.

If the Gout, being accustomed to return at certain seasons, shall not return, it portends grievous, and oftentimes deadly Diseases, unless the Morbifick matter by a diligent prevention shall be taken away,

away. For if through weaknes of Nature, the matter which is gathered together within, shall not be expelled, it breeds the greatest and most dangerous Diseases imaginable.

Whosoever they be that have the Gout, within the space of Forty days the Inflammation is allayed, and they are freed. *Hypocrates* in 49 Aphorism of the Fifth Book or Section. For in such parts as have little Natural heat, the matter offending requires a long time before it can be discuss'd. Howbeit this period of *Hypocrates* is not certain and perpetual: for some are healed sooner, and some later; which depends upon the quantity, thickness, or rebellion of the Morbifick Causes; the strength or weaknes of the parts affected, and the obedience of the Patients in point of keeping the Diet, and using the Medicaments appointed for them.

CURE. The Cure of all Gouts consists herein, *viz.* That the Flux of Humors into the Joynts may be stayed, that which already is come in and abides in the Joynts may be removed, and that the Pain may be in the mean while (if it be sharp) abated; all which may be performed by the following Medicaments.

And in the first place, letting of Blood will be very convenient, if there be no want of Blood in the Patient, and if flegm do not abound; because the blood is agitated by the motion of the Humors flowing into the Joynts, and does as it were boyl, and is by pain drawn into the part affected: wherefore it is necessary to draw the same back into that part of the Body which is opposite to the Part affected; and therefore if the right Arm be diseased, a Vein must be opened in the left; if the right Foot be pained, a Vein must be opened in the right Arm; and if the left Foot, in the left Arm. And Blood is to be taken away at the first beginning of the Disease; and as much as needs, must be taken at one time, if the Patients strength will bear it; if not, it must be done at several times, till the plenitude of Blood be sufficiently diminished.

One thing we must always remember, That Copious Blood-letting in such as can bear it easily, does exceedingly shorten the Disease, if it be done at the beginning of the Disease, at least by Piecemeal, drawing now a little and then a little.

Also Purging must be used at the beginning of the Disease, as soon as may be: for so both that Humor which is influx and is ready to flow, will be drawn from the way to the Joynts, and be brought unto the Guts. But in this Purgation two things are worthy of Observation, being frequently noted by *Solenander* a Famous Practitioner.

The first is, That this Purgation be not made by some mild lenitive Medicaments; whereby the Humors are rather stirred than evacuated, and are precipitated into the Joynts, whereupon a more grievous pain and swelling is wont to follow such Purges; but with some strong purgative, which may force out the stirred humor, and turn the cause thereof from the Joynts.

The other is, That the Medicaments being given, the Joynts about the Knees and Elbows be Plaistered with some defansative, by which the humor which is put in motion by the Medicine, may be intercepted, so that it may not so much nor so forcibly fall down into the Joynts.

To which intent let an Oyntment be made of Bole, Pomegranate Rinds, Balauftins, Roots of Bistort and Tormentil, red Roses, with the white of an Egg, and Vinegar; which being spread upon snips of Cloath as broad as ones hand, and indifferent long, let them be wrapped about the parts aforesaid. If these Simples be not to be had at present, wet them only with Vinegar and Water, and let them lie on at least a whole day. If the Fluxions be vehement, use a Liniment of Bole, Dragons Blood, the white of an Egg, and Oyl of Roses made with Oyl of unripe Olives: or at first use it without Oyl, adding a small quantity of the Oyl aforesaid, or of *Unguentum Comitissa*, lest growing dry and hard it cause pain.

And for to procure such a Purgation as we have spoken of, let the Skilful Physitian prescribe a Medicament fitted to the Nature of the Patient, and such humors as are redundant in his Body: or some of those Specifick Purgations which we shall propound in our Doctrine of Preservation from the Gout.

Vomiting is likewise profitable in this case, for such as are easie to Vomit; because it brings out the evil humors by a shorter way, and so there is no such fear lest they should rush into the part affected. But gentle Vomits are to be used, which do only evacuate those parts which are near the Stomach. For if they be vehement, and draw humors out of the Veins, they may precipitate the said humors unto the Joynts. Then after Vomitings, Purgation must be procured downwards; yea, and if one Purgation will not serve turn, it must be repeated.

After sufficient Purgation, it will be very good to procure Sweat, for so the wheyish matter will be discuss'd by the habit of the Body. But, seeing when the Gout gives its first Onset, there happens a kind of boyling and working of the Blood, and commonly there is a Fever, hot Sudorificks will not be convenient, but only such as are temperate; amongst which *Sennertus* commends *Harts-horn*, either crude or prepared, without burning; either alone, or with *Carduus Water*; as likewise *Antimonium Diaphoreticum*. In an old Gout without a Fever, a Decoction of *China*, *Sassa-parilla*, or *Saxafras*, may be given, qualified with cooling Herbs, as Cichory, Endive, Sorrel and Borrage.

Or

Or after the Sweat wiped off, it may suffice to give the Patient Chicken-Broth, altered with the Herbs aforeiaid.

Martinus Rulandus did use this following Sweating Medicine with happy success :

Take Tops of Centaury two handfuls; Assarum Roots two ounces : Boyl them in ten pints of Water to five pints, and strain the Liquor. Give the Patient eight ounces of this Liquor hot in the morning some days together ; and let him sweat upon it.

But *Foreſtus* commends the Root of the greater Burdock, because it cuts, diſcuſſeth and provokes both Sweat and Urine. And he reports, That a certain Gouty perſon that kept his bed, and could not ſtir a Limb, drank hot Beer in which the great Burdock-root had been boyled, after the drinking whereof, when the Phyſitians could do him no good with all their Medicine, he piſſ'd a great deal of white Matter like Milk, and was freed from his pains.

Hercules Saxonie puts a great many Loaves hot out of the Oven round about the Patient's Body, by which means Sweat is plentifully procured, and the pains removed.

Alſo a Decoction of Elder, Bay-leaves Sage, Roſemary, and ſuch like Herbs, will do much good, the Patient receiving the Vapour of this Decoction in a ſweating-Tub, which will make the ſweat to come luſtily.

Alſo the waters of Natural hot Baths do provoke ſweat, and do readily diſcuſs the Matter contained in the Joynts. And therefore when the ſick are not able to go unto them, their water is wont to be brought unto them, and heated in a Caldron for them to bathe in. *Erastus* in his 15. Counſel, prefers this above all others, for eaſing the pains, but he boyls ſo much Salt in the Water, as gives it an evidently brackiſh taſte.

In the beginning of the Fluxion of Gouty Humors, in the ſpaces free from Purgations, ſuch things muſt be given as ſtop the Flux, which have been propounded by me in the Cure of an hot Catarrh; eſpecially Juleps of Waters, or Decoctions and Syrups which do cool and thicken.

Yea, and the truth is, We are ſometimes compelled to uſe Narcotick or Stupeſactive Medicaments; for they both ſtop the flux of Humors, and they mitigate the rage of the pains. Of theſe ſort of Medicines, new Venice Treacle is moſt convenient, which may often be repeated without danger, from half a dram to a dram. Unto which may profitably be added a little Bole-Armenick to ſtop the flux of Humors. Howbeit, inſtead of Treacle, Laudanum, Opiatum, and other Narcoticks, may conveniently be ſubſtituted.

After due Evacuations have been celebrated, & other things given inwardly which have reſpect to the antecedent Cauſe, we muſt proceed unto local Applications, ſuch as mitigate the pain, and diſcuſs the Contingent Cauſe: Which are not preſently to be uſed, before the univerſal Remedies aforeſaid have been firſt applied; for otherwiſe they are wont to do more hurt than good. For either the matter which Nature intended to drive into the Joynts, is driven back into the inner parts of the body, whereby grievous Symptoms are raiſed; or it is forced into the Joynts, and the pain is exaſperated; or the part is effeminated, and made lax, and ſo the fluxion is encreaſed.

Which Cautions being commonly neglected, and external things untimely and heedleſſly applied; the Patients receive commonly more hurt than good thereby. And thoſe external Medicines do either reſpect the pain alone, or the Cauſe likewiſe of the pain, viz. The humor, which hath took its courſe into the part, and cauſed both the pain and ſwelling.

Such things as mitigate pain are very neceſſary in this caſe, becauſe the extremity thereof weakens the Patient, and draws the humors to the parts affected. Furthermore, by the uſe of Anodines, the parts are relaxed, and the humor which before did flow into the more deep parts about the Joynts, is diffuſed to the more ambient parts and external. Whence it is that the pains of the Gout are moſt vehement before the part ſwells; but after it is ſwollen they are mitigated. Now there are many Anodine or Pain-charming Medicaments propounded by Authors to be applied to thoſe parts which are troubled with the Gout. But the chief are theſe which follow.

Luke-warm Milk applied to the part affected, by wetting Linnen Cloaths therein, and laying them on, doth aſſuage the pain; as alſo if the part be ſprinkled and bedewed therewith, eſpecially when it comes freſh from the Dugs; which *Amatus Luſitanus* doth very much commend, in the 41. Cure of his Sixth Century, in theſe words: *One mightily tormented with the Gout, cauſed a ſhee-Goat to be brought into his Chamber, and her Milk to be milked out upon his pained Joynts; by which he perceived the pains evidently leſſened. And there is good reaſon for it: For Milk newly milked doth aſſuage, mitigate and leſſen pains. It is a medicine commonly uſed by the great Turk: and by thoſe who ſeek Profit and Honour, highly to be prized.*

Of Milk likewiſe is made the Cataplaſm of white Bread Crums boyled therein, adding the Yelks of Eggs, and a little Saffron.

Alſo the Leaves of Henbane or Violets are boyled in Milk, or in Vinegar and Water, and profitably laid upon the part affected.

Alſo a Cataplaſm is made of the Pap of Marſhmallow Roots mingled with milk.

Alſo

Also a Cataplasim is made of the Pulp of Cassia alone, or mingled with Oyl of Roses, or the following Ingredients :

Take Crums of white Bread boyled in Milk, half a pound : Pulp of Cassia three ounces. Make them into a Pultis. Or,

Take the Pulp of Cassia four ounces : new Venice-Treacle half an ounce : Barly and Oaten meal, of each three ounces : the Crum of white Bread four ounce : Cows Milk two or three pints. Boyl all into the form of a Pultis, which apply warm to the parts pained. If you add half an ounce, or an ounce of Vitriol calcined, and finely powdered, you may make it far more excellent.

In the beginning of the Gout, which seizes only the great Toe, lay on this following.

Take two whites of Eggs, a little Salt beaten to Powder : a few drops of Vinegar of Roses Mix all, and apply it upon Tow or course Flax to the part affected.

Other Cataplasms are likewise made of greatest efficacy, compounded on this manner :

Take water of white Mullein, and of Fern Roots and Branch, of each half a pint : Calcined Vitriol exquisitely powdered, one ounce and an half : Meal four ounces : Saffron two drams. Make all into a Pultis.

Take Mallows, leaves and Roots, as much as you please, boyl them in a new earthen Vessel, with equal parts of Wine and Vinegar, till a third part be consumed ; then add as much course Rye bran as will make it into a Pultis ; which being well wrought together and spread upon a Linnen Cloath, let it be applied to the parts pained, as hot as the Patient can endure it. Solenander doth exceed ngly commend this Pultis.

Forestus relates that a Cataplasim made of Duck-weed and Chamomel-Flowers boyled in Milk, adding a little Barly-meal, will do Miracles.

Montagnana affirms this following to be most excellent in extream pains.

Take the Yelks of ten Eggs ; beat them in a Frying-Pan with half a pound of Oyl of Roses. Let them boyl gently till they grow thick, adding two drams of Saffron ; and lay it on hot.

In the beginning of the Flux, many lay on a Cataplasim of Salt and Soot, wrought into a Body with whites of Eggs.

Or of two ounces of Chamomel Flowers ; red Rose Leaves one ounce and an half : Mullein flowers half an ounce : Powder them and boyl them in sweet Milk to the stiffness of a Pultis, adding three or four Yelks of Eggs.

Or of Barly-meal, and Bean-meal, of each one handful : Flowers of Chamomel and Roses, of each half a handful : Mullein Water, and Willow Water, or Plantane water and Wine, of each as much as shall suffice, Incorporated all together in form of a Pultis.

Also divers Fomentations may be made to be applied to the places affected, after this manner :

Take of the Leaves of Mullein six pounds : red Wine a Quart. Beat the Leaves and steep them in the Wine for three days. Distil them, and Bathe and Foment the parts affected therewith warm, with Linnen Cloaths dipped therein. Or,

Take Flowers of Mullein as much as you please ; fill a glass Bottle therewith, and stop the mouth, and set it in the Sun ; for so they will turn to Liquor, which being applied to the part affected with Linnen, mitigates the pain.

Sal saturni, that is, Salt of Lead dissolved in subtil Spirit of Wine, easeth pains wonderfully.

Frog-spawn-water stilled in May, applied to the parts pained, doth wonderfully assuage the pains, and tempers the Inflammation and redness of the part. These following Simples may profitably be mingled therewith.

Take Frog-spawn-water, Water of Tapsus Barbatus, or Mullein, and of Fern, of each one pound and an half. Infuse Lapis Tutie, and Litharge of Gold, of each two ounces : Vitriol Calcined, and Allum, of each one ounce. Foment the pained parts therewith warm.

An Infusion of Litharge made in Vinegar, the Vinegar being a little Evaporated, till it grow sweetish, doth much good to an hot Gout.

Oyl of Calves-feet is excellent to allay the pains of the Gout, and it is thus prepared :

Let the Calves-feet be beaten, and the Bones broken, then boyl them all to a Pap. Take the Oyl which swims on the top of the Water, mingle it with Aqua vita, and Salt, and therewith bathe or anoint the parts pained.

Also Oyls and Fats are by many used. But seeing the Inflammations which befall those Members which are troubled with the Gout, doth draw very near the nature of an Erysipelas or red fiery swelling, oftentimes those fat things may do more hurt than good ; for by stopping the pores, they may keep in the Humor, and so encrease the pain.

According as Sennertus makes relation of a man troubled with the Gout, who found great good by very new Sheeps milk Cheese laid upon the pained part : for as soon as the Cheese being heated by

the pained part, began to melt and sheds its Butter, the pains were encreased. Yet in some Bodies, Oyl of Roses, and such like, may do good, especially mixed with other Medicaments; because according to the different Nature of Mens Bodies, several things do good to several persons. And therefore we must be furnished with a mighty company of Medicaments, that upon all occasions we may have change; because there is scarce any one so effectual, as to do good to all that are troubled. Take these following for an example or Pattern.

Take Crum of the whitest Manchet half a pound: Boyl it in new Milk to the consistence of a Pultis; then add the Mucilage of Marshmallow-seeds two ounces: Meal of Lin-seed and Fenugreek-seed, of each two drams: Flowers of Chamomel, and of Malilot powdered, of each one ounce: Saffron one dram: Oyl of Roses one ounce: Mix all into a Cataplasme.

Or to the Cataplasme of white bread Crum before described, Oyl of Roses may be added.

Also Liniments and Oynments are wont to be made to mitigate pain.

Take Telks of Eggs two or three: dissolve them with Oyl of Roses, or Violets, or Wine, and apply them luke warm.

Balsamum Saturni prepared with Oyl of Roses or Violets, allays pain most effectually.

Take Cerus two ounces: dissolve it in Endive-Water and a little Vinegar, make thereof a Liquid Oyntment.

Of the said Cerus is made a Plaister of great efficacy, which may be laid on in the beginning of the Disease, even whiles the Tumor and Inflammation is present. Its composition is thus.

Take common Oyl one pound, Wine a pint and an half: boyl them till half the Wine be consumed. Then add a pound of Cerus finely powdered, and two drams of Camphire. Boyl them to the consistence of an Emplaster. When there is great Inflammation, Vinegar must be used instead of Wine. Spread this Plaister upon Linnen Cloaths that it may the more commodiously be wrapped about the Parts affected.

A Living whelp laid to the pained Part, doth very much assuage the pain.

When the pain rages extremely we may have recourse to Narcoticks; howbeit they must not lie long upon the Part, because they are adverse unto the natural heat, and to the Nerves.

Take Henbane-Leaves two handfuls: Nightshade and Housleek of each one handful: Garden Poppy-Head one pugil, Mandrake Roots one ounce: Chamomel Flowers and Violet Flowers of each one pugil, make a Decoction in Water or Milk, with which let the part be bathed.

Beat the residue after the Liquor is strained out, and add of the Flower of Lin-seed one ounce and an half Wheat-meal two ounces; Oyl of Chamomel three ounces: and make a Pultis. Or,

Take Spirit of Wine somewhat Yellow by infusion of Saffron four ounces: Champhire one scruple: Boyl them a little, then dissolve therein one dram of Opium: With that Liquor let the pained part be bathed: It is a safe and most effectual Medicine.

Green Tobacco-Leaves beaten and laid on, do ease the Gout, and are said to be of a stupefactive Nature.

As for the efficient cause of the pain, to the humor flowing into the part, repelling-Medicaments must be opposed; and to that which is already in, deriving and resolving-Medicaments must be applied.

Howbeit repelling Medicines are disallowed in this case, especially alone and without the mixture of other things. For if they shall wholly stop the influx of the matter into the parts affected, it is to be feared lest they retiring to the inward parts, should cause dangerous Diseases, unless they happen to be translated to some other Joynt. Again the humor which hath already flowed into the part, is the more driven inward, by which means, the pains become more violent. But yet, if in the beginning of the Gout there be a great afflux of humors, especially hot ones, which threaten sharp pains to follow, it will be convenient in some measure to repress the same, by applying repellers, not alone, but mixed with such things as mitigate Pain, after universal and sufficient Evacuations. For then such things as do overmuch relax, do help forward the afflux of Humors. And therefore, we may add unto the foresaid Cataplasms and other remedies, Plantane, Lettuce, Purslain, Housleek, and such like, as also a little Vinegar. As for Example,

Take Barly meal three ounces: Boyl it in Water and Vinegar, add two Telks of Eggs, Saffron twenty grains: Make all into a Pultis. Or,

Take red Roses an handful: Barly and Fenugreek meal of each one ounce: Red Sanders one dram and an half: Chamomel Flowers one pugil: when they are boyled and beaten, add two Telks of Eggs, Vinegar four ounces: Oyl of Roses as much as shall suffice; make all into a Pultis.

Among Remedies which derive the Humor from the part affected are Horse-Leeches, after a sufficient Evacuation applied therefore: for then they do much good, especially when the Veins in the part affected, do seem distended, and swelling with Blood.

Now resolving-Medicaments are wont to be used in divers forms, as of Waters, Oyls, Unguents, Balsoms, Fomentations, Fumigations, Cataplasms, Plaisters and the like, compounded after this manner:

Take

Take Viriol white and green, of each one ounce: Camphire two drams: Aqua vitæ and Whitewine of each one pint: Mix them and apply them with cloaths dipped in them. Or,

Slake Lime in Urine, putrifie the Liquor, and foment the pained place therewith. It is likewise good if it be done with Vinegar and Lime.

Martinus Rulandus in the Centuries of his Cures, doth mightily cry up his Gout-quelling Water, but never describes the same. But Libavius, Petreus, and others suppose it was thus made.

Take Fountain-Water a pint, Aqua-fortis half an ounce, Sublimite one dram: Boyl them a quarter of an hour. Wet linnen cloaths in this Liquor, and apply them luke-warm to the part affected.

Quercetanus in his Pharmacopæia propounds this following.

Take Pickle of Salt, and the Urine of a Boy, of each equal parts. Still them, and wet Linnen Cloaths in the Water, and apply to the place affected, often changing the Cloaths for fresh ones.

Take Green Elder-leaves and flowers of each one pound: beat them and steep them in Aqua vitæ for two or three days: still them in a Glass or Copper-vessel, till they be dry.

Take Spirit of Wine rectified two pounds: of the finest Honey one pound. Distil them in Balneo Vaporoso: So you shall still two Liquors; The first is watrish; The second much stronger, and Sulphureous, which you shall keep by it self. To the remaining materials add an ounce and an half of whole Oriental Saffron: Venice Turpentine two ounces: Castoreum six drams: Tartar calcined till it be white, half a pound: Dissolve Salt an ounce: Phlegm of Vitriol not separate from its Spirit, four ounces: Lie made of Vine-tree-ashes two pound: steep them together twenty-four hours. Then still them till they become dry: keep the Liquor which comes likewise by it self. To the Dregs remaining pour on the former Water which you kept: Steep them and still them. Lastly put all the distilled Waters together and distil them in Balneo Vaporoso.

Quercetanus saies, That this Water is of wondrous efficacy, and that it was communicated unto him by a certain most famous German, as a special gift, affirming, that this was the very Water of Rulandus. And he averred that he had seen the rare effects thereof in easing the pains of the Gout, if Linnen-cloaths being moderately warmed and dipped therein, be applied to the part affected.

The same Quercetanus in his Counsel touching the Gout, doth brag that he reserves to himself his Gout-quelling water, as a Master-piece for such an old Soldier as himself to boast of, which he saies is made of plain Fountain water, wherein he does divers times quench certain Metalick substances, which are wont to be taken inwardly when rightly prepared; whose spirits being impressed into the foresaid water, do contribute thereunto the power of penetrating unto the Roots of the Disease, and of truly dissolving the Tartarous, stony matters, with the Salts, which are combined in the Joynts, from whence such intollerable pains do arise.

Peradventure this that follows is not unlike it, nor a whit inferior in Vertue.

Take Unslaked Lime four pound; Slake it in River-water as much as you please, and let it stand in a Wine cellar three days, that the Salt may be better extracted out of the Chalk or Lime. Afterwards let them boyl a little, and strain the Liquor through an Hypocras Bag. In twenty pints of the strained Liquor, quench seven or nine times, first Plates of Steel red hot; and then Plates of Copper red hot; add, thirdly, to the quantity of ten ounces of Vitriol calcined till it be white; fourthly, Antimony melted in a Crucible to half a pound; filthy Litharge or Cernise heated in a Crucible, half a pound; white Precipitate, once washed and no more, one ounce and an half. Brass burnt and finely powdered, half an ounce; After the quenching of these minerals, let the water stand still in a Wine-cellar, the space of ten days. Afterwards, boyl it a little, and strain it through an Hypocras Bag. In this water being hot, doubled cloaths must be dipt and frequently applied to the Gouty part.

Among Fomentations easie to make, that is commended, which is made of Salt Ammoniack seven times sublimed. and fitly dissolved in Wine or water. Or of the Urine of a young man in good health boyled till half be consumed, and laid on with Rags.

Solenander writes in his 24 Counsel, Section the 4. That a certain Gouty old man was wont to make himself these Medicines. When the swelling and pain was great, and the place red, he took Salt, the Urine of a Boy, and Vinegar. In these being mingled together, he wet a Linnen-cloth and lqueefed it, and laid it on; this he did divers times, and so the pain was much abated.

As we said before, that Anodine or Pain-quelling Oyls did little good in the Gout the same must here be said of resolving Oyls because they close the pores of the Skin and so hinder the freedom of transpiration, and encrease the heat; neither can they by reason of their clammy substance pierce into the innermost parts of the Joynt, so to temper and resolve the Salt, sharp and Tartarous Humors which lurk in them. Yet if the aforelaid Oyls shall be distilled in a retort, they will become very fit for this use, because they will be very searhing, and no ways clammy. Among these, the most excellent are Oyl of Cheiry, Saint-Johns-wort; and of the Yelks of Eggs, which being mixed together

and stilled by a retort, are very profitable to ease pain, and to discuss the cause thereof.

Also *Mathiolus* his Oyl of Scorpions stilled after the manner aforesaid, is most excellent.

Oyl of Wax is likewise to the same purpose.

But Oyl of Mans Bones made after the same manner that Oyl of Tiles is made, is preferred before all others, and commended not only by the Chymists, but also by the Dogmatical Doctors, as *Crato*, *Platerus*, and others. The manner of making it, is thus: Mans Bones fresh and unburied are broken and burnt, and cast into old Oyl: afterward, they being full of the Oyl, are beaten and cast into a Retort, and so by the force of the fire, an Oyl is drawn out.

Where Mans Bones are not to be had, the Bones of other Animals may serve the turn.

This following will also be very good:

Take *Mastich*, *Frankincense*, *Myrrh*, *Ammoniacum*, *Opobanax*, *Bdellium*, *Mummy*, of each two ounces: *Vitriol* one pound: *Honey* two pound: *Tartar* one ounce and an half: *Spirit of Wine* four pound. Distil out of all an Oyl, with which let the pained part be anointed with a feather.

To ease the pain, and to resolve the Matter of the Gout, Liquor made of Snails is likewise commended, which is thus compounded:

Put an handful of Snails into an Hippocras Bag, and cast upon them an handful of common Salt; upon the Salt, a handful of Dwarf-elder, or Dænewort seeds very finely powdered: And so one lay after another of Snails, Salt, and Seeds, until you have made four or five lays of every one in particular. Let the Bag hang in a moist Cellar; and after a few days there will drop a slippery Liquor and fat; which set in the Sun for four days, and then smear the place affected therewith.

A resolving Unguent may be made after this manner:

Take *Chamepitys*, common *Wormwood*, and *Rosemary-tops*, of each a handful: *Chamomel-flowers*, *Melilot-flowers*, and *Rose-leaves*, of each one pugil: Oyl and Wine of each half a pound: Let them boyl till the Wine be consumed: the Liquor being strained, add thereto as much Wax as shall suffice to make it into an Oyntment. Let the part affected be anointed herewith warm; within twenty four hours the part doth swell, and the pain ceaseth.

Also divers Pultisses resolving and easing pain, may be made. The principal are these.

Take wheaten Bran a pound: Salt one ounce: Soap as much as shall suffice. Boyl all into a Cataplasme, or Pultis. Or,

Take Bean-meal half a pound: Boyl it in a sufficient quantity of Wine, adding thereto a little *Aqua vite* and Butter. Make it into a Pultis. Or,

The Leaves of Dwarf-elder, or Tree-elder, being beaten may be applied; or they may be fried with Butter in a Frying-pan like a Pancake.

Briony Root bruised with *Aqua vita*, is also very effectual.

Also some commend *Aron*, *Cuckoo-pintle*, or *Priests-pintle-Roots*, being mingled with Cow-Dung.

This following is commended by *Solenander*, because it resolves without any great heating, easeth the pain, and strengthens the Joynts. And it may be safely applied after the beginning of the fit, about the fifth day of the Disease.

Take Powder of red *Roses* two ounces: *Mastich* one ounce: *Camphire* half a dram: *Barley meal* half a pound. Boyl all in *Whitewine*, evermore stirring the same, till it come to be thick, and lay it on warm.

Emplaisters are likewise wont to be of great use in this case. The chief are these which follow.

Take *Frankincense*, *Mummy*, *Colophony*, of each one ounce: *Mastich*, *Myrrh*, white *Coral*, of each half an ounce: Mans Fat six drams: Gum *Ammoniacum*, *Bdellium* dissolved in *Vinegar*, of each three drams: *Turpentine* half an ounce: Oyl of *Foxes*, and of *Roses*, of each as much as shall suffice to make all into a plaister.

Take *Florentine*, *Orris-Roots*, and *Hermadaetiles* powdered, of each six drams: *Emplastrum Oxycroceum*, and de *Mucilaginibus*, of each two ounces: *Rozin* of *Pine* one ounce. Melt them together, adding Oyl of *Worms* as much as shall suffice, and make thereof a Plaister.

Emplastrum Diapalma, or *Diacalcitheos* is very much used, both alone, or with *Camphire* added thereunto after this manner:

Take of the Rowl of *Diapalma*-Plaister half a pound: *Camphire* two drams. Mix them together, and apply them to the parts affected.

Or in Form of a Cerecloth.

Take of the Rowl of *Diacalcitheos* Plaister half a pound: Plaister of *Sulphur* an ounce: *Storax* and *Benzoin*, of each half an ounce: *Tacamahacca* two ounces: Oyl of *St. Johns-wort*, and *Worms*, of each one ounce: *Liquid Storax* an ounce and an half: *New Wax* as much as shall suffice. Melt all together, dip your cloth therein, twice or thrice, make it smooth and dry, and keep it for your use.

But

But yet the same Plaister mingled with these things following, ought to be reckoned among the most excellent Medicines for the Gout.

Take *Diacalcithea's* Plaister dissolved in harsh red Wine, and boyled till the Wine be consumed, one pound: Myrtles, red Roses, Mastich, Tartar of red Wine powdered, of each two drams: *Chamepitys*, or Ground pine, and right Sweet Chamomel powdered, of each half a dram. Make of all a Plaister, to be applied after the swelling is much abated.

And at last, in a very old and settled pain, especially from a cold cause, some lay Vesicatories to raise Blisters upon the parts affected. *Sennertus* makes mention of them, but so as that Anodines be mixed with them. But the most wise *Varandens* my Master did with happy success use the common Vesicatory-Plaister, which is kept in our Shops, simply, and by it self without any mixture; where-with he cured a great and rebellious Swelling upon the Knee, when other Physicians had in vain used many Purgations, Sudorifick Diet-drink, and many External Medicines.

In the use of all the fore-recited-Medicaments, this one thing is diligently to be noted, That we must take our hints from such things as we find do help or harm the Patient: forasmuch as the Natures of Men are divers, their complexions divers, and divers kinds of Excrements are bred in several Men, whence it is that the same diseases do extreamly differ in several persons; therefore what profits one man, doth another no good at all; which often comes to pass in curing the Gout. And for this cause, every Practitioner must have an abundance of Medicines, that when one hath been applied in vain, he may use another and another, making always choice of such as rational Method shall most approve of.

When the Gout becomes stony and knotty, it is extreamly hard to cure, especially if it be of long standing. But new knobs may with Emollient and Resolving Fomentis, Unguents, and Plaisters, be dissolved. The most Specifick or Appropriate, are these which follow.

Galen exceedingly commends a Plaister compounded of old strong Cheese, made into a Plaister with the Decoction of a powdered Sows Pistle or Leg.

Others boyl powdered Sows Legs, till they come to a slimy substance or Gelly. Afterwards they mingle therewith two parts of old Cheese, powder of Water cresses one part, and so make a plaister thereof. Or,

Take Juyc of Tobacco three ounces: yellow Wax two ounces: Rozin of the Line-tree an ounce and an half; Turpentine one ounce; Oyl of Chamomel as much as shall suffice. Make all into a soft Cerate or Plaister. Or,

Take of those Eastern berries, which the French call *Coques de Levant*, and Myrrh, of each half a pound. Powder them, and mix them together with strong Vinegar into the form of a Cataplasm.

Gum Ammoniacum dissolved in Vinegar, doth powerfully soften.

Rulandus anoints thole hard swellings in the morning, at noon, and in the evening, with Oyl or Balsom of Sulphur hot, and then he lays on a Plaister hot, of *Emplastrum Diasulphuris*.

But this Plaster following is your rare Plaister, because besides easing the pain, it draws the gritty, stony substance out of the Joynts likewise.

Take Roman Vitriol one pound: Roch Allum half a pound: Salt four ounces. Calcine all these together in a Crucible or earthen pot, letting it to steem so long till the spirits shall begin to go away: Which when you perceive by their smell to rise, leave presently your calcining, and let all cool, and then powder them.

Take of this Powder, and Barly-meal, of each a like quantity; mingle them with wine-Lees to the form of a Pultis, which spread upon a rag as thick as a knife, and apply to the place affected. When it is dried, dissolve it again with Lees of Wine, and apply it again, until in the first place the pain be dissipated; and in the next place, until all the stony substance be consumed out of the knobbed and knotted Joynts. In the mean while it falls out often that the Skin will break, which need not affright us; for either afterwards the Ulcers close of their own accord, or at least by laying Wax upon them in manner of a Plaister, they are closed up, the Joynts having regained their motion with activity.

Finally, If the Gout be very exceeding old, and perfectly knotted, by the preceding cure a mitigation of pain is to be hoped, but the stony substances will hardly give way; therefore with a gentle Caustick the Skin is to be opened, and then the stones are to be taken away with a drawing-Plaister of Gums.

The cure of the Gout when present, is performed by the Remedies aforesaid. But because this Disease is wont to return by fits, especially in the Spring and Fall, we must now shew the way to prevent the same. Which prevention ought to aim at the hindering of any Gouty matter, like to fall into the Joynts, from gathering in the Body; or if any be collected, that it may be carried away.

And

And finally, that the Joynts may not be so disposed to receive the humor which flows unto them. The collection of Matter will be hindered, by an excellent Diet, and by Medicines rectifying the distempers of the Bowels. The Matter collected will be carried away by Evacuating-Medicaments. And the Joynts will not so easily receive, if they be fortified with corroborating Medicaments.

As for the Matter of Diet, although in this case it be of very great, yea greatest moment; yet the Nature of this work will not give me leave to describe the same.

I shall only speak of the Patients Drink, so as to say, that Wine is extream hurtful to all Gouty Persons, and many have recovered only by abstaining therefrom. Yet if the Patient in regard of some other infirmity cannot wholly abstain from Wine, let him drink weak Wine, or well allayed with Water. *Hollerius* instead of Wine commends thin Metheglin, viz. Of forty or forty eight parts of Water to one of Honey. Yet this suits not with such as abound with bitter Choler, and those that are dry and thirsty.

This following Diet-drink suits all Natures, and hath done much good to very many persons.

Take Sarsaparilla-Roots two ounces: Liquorish one ounce: Cinnamon and Annise-Seeds half an ounce: Make all into a very fine Powder. Of this Powder mix one spoonful with so much small Beer or Ale as the Patient is wont to drink at a Meal. Brew them together out of one Pot into another three or four times: Then strain the Liquor for the Patients ordinary drink. Doing the like for every meal.

And as for Evacuations, Bleeding must be first practised, especially in the Spring and Fall, in such as abound with Blood, and whose Blood is wont to work and ferment, or be very hot.

But Purgation is not only to be used Spring and Fall, but 4 times in a year, yea and every month in every Cacochemical Body; that is, which abounds much with evil Humors. To which purpose many forms of Purgations are handed to and fro, of a special property for this Disease. These that follow are the chief, which are so to be used by the discreet Physitian, as that he must take many changes, both in respect of the materials and the Dose, according to the various Constitutions of the Patients.

Take Senna cleansed, Turbith, Hermodactiles, and Powder of a Man Skul that hath never been in the Earth, of each one dram: Diagridium half a dram: Make all into a Powder, of which give one dram at a time, in Ground-pine Water, or in Broth. Or,

Take Sarsaparilla one ounce: Senna six drams: Turbith, Hermodactiles, Jalap, Mechoacan, of each half an ounce; Agarick Trochiscated two drams; Diagridium and Cinnamon of each half a dram; Make all into a Powder, Steep a dram thereof in Whitewine all night, in the Morning let there Patient drink Powder and Wine.

Electuarium Caryocostinum, is by *Betrus Payerus* exceedingly commended, and is approved by all Practitioners, and it is described in the *London Dispensatory* in Folio 111. and in that of *Banderon*. It is given to half an ounce: But in hot Constitutions it may do harm.

Rhasis commends his Pills so far as to say, that they can make such as are fain to Ride, to go on Foot again. Thus they are made.

Take Aloes of the best, half an ounce; red Roses two scruples; Hermodactiles white, and purged from their outmost Skin or shell, one dram and an half: Diagridium one dram: With water of Ground-pine and Honey of Roses make all into a Mass of Pills. The Dose is one dram.

These also are good which follow.

Take Aloes, Hermodactiles, of each half an ounce: Ground-pine, or Chamepitys two drams: Chamadrys or Germander, Stachados of each one dram: Saint-Johns-wort Seeds, half a dram: with Venice-Turpentine make a Mass of Pills, which because they purge little, may be given the oftener.

Also Evacuation by Vomit is very good for prevention if the Patient can bear it well; which is declared by *Alfaharavius* a famous Physitian in these words. *A Vomit is better than a Purge to root out such ill Humors of a gross nature, as are below the Knee, even to the Foot; as in the Knee-Gout, Sciatica, and such like.*

Now vomiting may be procured every Month two days together, because the second day drives out the Reliques of the first. And some observe, that vomiting is more successful than ordinary when the Moon is in a Sign that chews the Cud, such as the Bull and the Goat, or Capricorn. It is good to Vomit after Supper, the Patient having eaten divers Meats, Fat, sharp, and Salt or Spice &c. and others in great quantity, and afterward rubbing his Stomach, and putting his Finger into his Throat. And if that will not do, he must take a Vomit, especially of *Asarum* and Broom boyled together, and the Decoction drunk; which are otherwise good in the cure of the Gout.

That Evacuation likewise which is made by sweat, purges the Blood from wheyish Excrements, and draws out the antecedent cause of the Gout. To this purpose a Sudorifick Diet-drink may be ordered for the Patient Spring and Fall, of a Decoction of *Sarsaparilla*, *China*, *Saxafras*, or of *Gua-jacum*, as the temper of the Patient shall advise.

But some late Physitians have brought into use, a Decoction which carrieth away the Matter meerly by invisible Transpiration through the pores of the Skin, without any sweat at all, which hath done a world of good. Its Composition and use is thus :

Take Sarsaperilla, Crude Antimony, Nut-shells, of each six ounces : China-Root one ounce : a little Brasil Wood : Water nine pints : Boyl them to four pints and an half. Let the Antimony and Nut-shells be powdered and tied in a cloth, which must be so hanged in the pot that it touch not the bottom. Let him take a good draught of the strained liquor in the morning, three hours before dinner ; in the afternoon four hours after dinner, and three hours after Supper, for fifteen days together. Bleeding and universal Purgation being premised.

Of the Grounds remaining in the strainer, with like quantity of Water, may be made a Diet-drink for ordinary use instead of Beer. Boyl the water half away, and add Coriander and Liquoris as much as shall suffice to give it a good smack.

To prevent the Gout, and to root the same out of the Bowels, some Practitioners commend the use of the Gout-quellers given a whole year together, whereby they avouch many have been perfectly cured. Among many of their Receipts, this is the principal.

Take Sarsaperilla four ounces : St. Johns-wort seeds, Ground pine, and Germander-leaves, of each three ounces : round Birthwort six drams : Angelica three drams : Cinnamon three drams : Cloves four scruples : Saffron two scruples. Let all be finely powdered and incorporated with Spanish Honey clarified as much as shall suffice. Make all into an Electuary, which let the Patient use a year together, taking every day in the Spring, Fall and Winter, one dram and an half ; in the Summer only one dram. Let the Patient forbear to take it in the Dogs-days. Let him only abstain from Wine and Lechery.

Peradventure the Decoction of Germander may be of the Nature of the Gout-quelling Medicament our Practitioners talk of ; which was therefore commended to the Emperor Charles the Fifth exceedingly by the Physitians of Genoa ; and Solenander doth testifie, That very many who drank this Medicine threescore days together, were perfectly cured. The Composition of this Decoction is thus :

Take Germander gathered when it flowers, and well preserved, one handful : Ripe Wine not very strong, nor very small, three pints : boyl them in a double Vessel five hours. Let the Patient take a draught of the strained wine, and compose himself to sweat. This is to be done after the Patient have been purged.

And it is here to be noted touching those hot Medicines, that they are not only unprofitable for hot Constitutions, but they cause such Resolutions of humors or Joynts, or other inconveniences, as can never be cured, and therefore they must be given with great Caution.

Peradventure this following Electuary may be used with more safety and success, which doth purge the Body by little and little from all superfluities, without heating the same.

Take Senna half an ounce : Turbith, Hermodactils, of each six drams : Lignum Guajacum, Saxaphras, and Sarsaperilla, of each half an ounce : China Roots one ounce and an half : Nephritick Wood two ounces : the three Sanders, of each an ounce : Annis-seed two drams : Honey very well clarified fourteen ounces : make all into an Electuary. The dose is one dram every day in the whole year, except the Dog-days.

Among the common people, some hold it for a great preservative from the Gout, to swallow three Cloves of Garlick whole every morning for a month together. For they heat and strengthen the Stomach, without heating the Liver, or other Bowels ; for they are voided forth with Excrements whole, but boyled and wrapped in clammy Flegm, which they bring from the Stomach and Gout.

In the Gout proceeding of Cholerick humors, waters of Medicinal Wells, which are Acid, Vi-triolate, and cooling, such as that of Tunbridg in Kent, Blackboys not far from Lewes in Sussex, one in the Parish of Sandherst in Kent, do very much good. So that by the use of such Waters, some persons have been for a long time freed from the Gout.

To the same purpose Hypocrates commends in his Book of Diseases, the use of Asses Milk, which Experience shews hath done good to many Gouty persons.

And in a word, All things which are good against an hot distemper of the Liver, and to strengthen that Bowel, will be good in this case, as they are described before in the Cure of the hot distemper of the Liver.

But if a wheyish humor flowing from the Brain be cause of this Disease, as most commonly falls out, the greatest care must be had of the Brain ; viz. That its distemper may be corrected, and that the Humors bred therein may be derived and disscussed : To which intents, Issues, Vesicatories, Medicines to be drawn up into the Nose, Masticatories, Powders, Spiced Caps, will be very serviceable ; and other Remedies propounded in the Cure of Diseases of the Brain.

The

The last Point of Prevention, is to strengthen the Joynts that they may not so easily receive the Humor flowing in. Yet it is to be noted, that strengthening Medicaments, are not only vain, but hurtful also, unless the antecedent cause, and the Humor ready to flow into the part, be carefully removed by the foresaid Medicaments. Otherwise those strengtheners, either are not able to hinder the influx of the Humors into the Joynt: or if they do hinder the same, the Humors retire to the more noble parts of the Body, and raise much worse Diseases.

Among the principal strengtheners the pressings of Grapes, viz their Seeds &c. are reckoned, which discuss the reliques of the Morbifick Matter by their actual heat, and by their astringency do very much strengthen the parts. *Duretus* upon *Hollerius* doth thus commend them. *But the use of Wine-Grape Kernels doth exceedingly profit in the time of Vintage. If the pressings of the Grapes be brought out of the Wine-Press into a Barn, and being covered with Blankets do there grow hot. In them let the Patient thrust his Feet, Legs, Thighs, Arms, or h.s whole body, I have tryed it (saith he) an hundred times, there is no better thing under the Copes of Heaven.*

And *Solenander* in his Counsel 21. Sect. 4. Doth give the foresaid Medicine this commendation.

But among the best and safest remedies, (which do also strengthen the parts affected, and do cherish the innate heat) is this to be reckoned, and diligently once every year (for oftner it cannot) to be practised, viz. That in a Vintage-time, the Feet and Hands affected, be whelmed in pressings of Grapes hot from the press, or made hot with warm Wine, every Morning for fifteen days. And I could name a worthy personage, to whom I have communicated this Medicament, and received from him a very considerable Gratitude therefore, who could not go at all, and by this Medicine and Gods Blessing, he was restored. And by how much the Grapes are riper, by so much the more good will the pressing do in this Case.

Sulphureous and Nitrous Baths, such as the Balerucane in *France*, do not only discuss the Matter of the Gout, by provoking sweat, as was said before; but also by strengthening the Joynts, they do much conduce to the prevention thereof; as also being used by way of Embrocation, that is the Head being wet therewith, or it being pumped upon the Head, or Cotton wet therein be at last laid on and made fast. The mire of the said Baths applied to the weak parts, do likewise strengthen them.

Where the benefit of Natural Baths cannot be had, the Feet may be washed and other parts Fomented with a Decoction of Nerve Herbs, some astringents being added thereto, as Balaustins, Mirtle, Cypress Nuts, Allum, and Salt, with Iron-quenched Water and red Wine.

Also Oyntments are commended, being frequently used, after this manner.

Take Oyl of Mirtles or Roses two ounces: Salt two drams: Mix them and make a Liniment. Or,

Take Oyl of unripe Olives, Oyl of Mastich one ounce: Salt fried in a pan two drams: Bole-Armennick three drams: Dragons blood, Hypocistis, Frankincense, Mastich, of each one dram and an half: Let each particular be first finely Powdered by it self, then with the Oyls mix them into the form of an Oyntment.

The Plaister called *Emplastrum Diapalma* is very good to strengthen the Joynts: and its useful in all Gouts, whatever the Humor be which offends. And *Solenander* writes in his Counsel 25. Sect. 4. that he hath known some, who had wont often to be troubled with the Gout, and by the continual use of this Plaister, with frequent purges taken at certain distances of time, they were freed from those Pains for five years together. And this Plaister doth not daub and foul, doth not raise Itch or Pimples, nor is it troublesome by its smell or any other evil quality. And it is fitted to the shape of the member. When the Feet are troubled, Shooes are made of thin Leather which being smeared with this Plaister are put upon the Feet. The like Leathers spread with this Plaister may be applied to the Wrists and other Parts. But the truth is, the same Plaister boyled in Wine and mingled with Powder of Mirtles, Roses, Tartar, Chamepytis or Ground-pine and Chamomel, so as we described before in the Curation, is much better for the same uses. And we have seen Gouty-persons, who continually wore such a Plaister upon their Feet and Wrists, with most happy success.

Chap. 2. Of the Hip-Gout, or Sciatica.

THE Pain of the Sciatica or Hip-Gout doth herein chiefly differ from other sorts of the Gout, because in those the Pain possesses only the Joynts; but this is not only in the Hip, but it holds the top of the Buttock also, the Loyns and the *Os Sacrum*, and reaches into the Thigh and Leg even to the very Foot. Which comes to pass by reason of Nerves arising out of the Loyns and *Os Sacrum*, which are carried unto the Hip, and are from thence derived and spread unto the Thigh, the Leg and Feet.

CAUSES. The cause of this Pain is the same which was propounded in other sorts of the Gout.

It

DIAGNOSTICK.] The Knowledge of this Disease is taken from the part affected : from whence it also took its Name; for the Pain doth especially affect the Region or part of the Hucklebone ; for it hath this property, that no Humor, nor Inflammation or change of the colour, appears as is wont to be in other signs of the Gout, because the flowing-Humors do insinuate themselves into more profound or deep parts, and into such as are larger, and covered with much flesh, and they are not diffused into the surface of the Body, nor the very Skin, as in other Gouts.

PROGNOSTICK.] This peculiar Prediction belongs to the Hip-Gout, that if it continue long, it puts the Hip out of Joynt : for a Wheyish and Flegmatick Humor doth insinuate it self into the hollow of the Joynt which is very large, and if it bide there long, its thinner part is dissolved, the thicker remaining, which becomes snotty, and softens and loosens the bands which knit together the bones which belong unto that Joynt ; so that the bone of the Hip falls from its Socket, whence follows Luxation, and thereupon limping or halting, and a Consumption of the whole Thigh ; because the Bone being split out of its seat, doth press upon the Muscles, Veins and Arteries, by which means motion is hindered, and Blood and Spirits cannot conveniently flow into the inferior parts. The aforesaid Doctrine is confirmed by two Aphorisms of *Hypocrates*, viz. The 59 of the 6 Section. Such whose Hips after long pains, slip out of Joynt and in again, they have Snotty Excrements in that Part. And the 60 Aphorism of the same Section ; Such as being troubled with long Pains of the Sciatica, come to have their Hip disjoined, their Thigh Consumes, and they halt except they be burnt.

CURE. The Cure of the Hip-pan hath many things common with the other sorts of Gouts; yet in many things differs because of the structure and largeness of the Joynt ; therefore it is to be distinguished from the former Gouts, and to be handled in this Chapter by it self.

And in the first place a Clyster or gentle Purgative being premised, the Vein of the Arm on the same side must be opened for revulsion sake : afterwards for derivation sake, the *Vena Poplitæ* must be opened about the Knee, or that Vein near the outward Ankle-bone, which is called the Sciatica Vein, because of the great good which the opening thereof is wont to do in this Disease ; which alone being opened doth often heal this Disease.

It is wont to be opened on the Leg of the same side the Gout is on, yet hath it done much good being opened on the contrary side, and hath been seen suddenly to take the Pain quite away.

Galen in his Book of Blood letting, Section 18. I remember (saith he) that I have Cured divers troubled with the Sciatica in one day, opening a Vein in their Thighs ; viz. The Cause being not from cold, but fulness of those Veins which are in the Hip ; so that a Vein opened about the Ham or Knee, is more proper and commodious in such cases, than in the Ancles.

Also Blood drawn out of the Hemorrhoids by Leeches, doth wonderfully help those that are Hip-Gouty, because the Blood contained in the Veins of the Hip is thereby drawn out : for there is the greatest consent and fellow-feeling that can be between these parts by means of their Veins.

Strong Purgations are proper in this case, for lighter purges do rather precipitate the Humors into the parts affected. And therefore the Arthritical Powders are most convenient, *Caryocostinum*, Pills of *Hermodactyls* and such like. The Chymists do sometimes successfully use Mercurial and Antimonial purges in strong Bodies.

Mercurius dulcis, with Scammony or other purgatives, given frequently, doth powerfully Eradicate the Humor causing this Hip-Gout.

Many prefer Vomiting-Medicaments before purgatives, because they Evacuate the Humors by a place more remote from the part affected. *Rondeletius* prefers *Asarum* before other Vomitories.

After sufficient Purgation, we must proceed to local Medicaments. And as for repelling Medicines, they are no ways convenient, because it is to be feared lest the Humors be so much the more fixed into the part affected ; but at the beginning Resolving things must be applied ; first milder and less hot, lest they should attract the Humors more into the part affected ; after such as are more vehement, in this manner.

Take Briony-Roots two pounds : Dwarf-Elder Roots one pound : Juniper-Berries half a pound : Leaves of Ground-pine, Mint, Marjoram, Sage, Rosemary, flowers of Chamomel and Melilot, of each four handfuls : Make a Decoction for a Bath to sit in, which let the Patient sit in twice a day for two or three days together. At the beginning the Decoction may be made of Water alone, afterward in Water and Whitewine.

With the same or like Decoction hot, may the Part pained be fomented frequently.

Also Bags may be prepared of Salt, Millet, and Bran, fried with rich Canary in a frying Pan, and laid on warm.

Or, Bags very effectual may be made only of Juniper-Berries beaten and fried in a Pan as aforesaid.

Also anointings will be convenient of Oyl of Chamomel, Oyl of Dill, Orris, Nard and Rue ;

which by relaxing the exterior parts, will draw the motion of the Humors to themwards, by which means the inner parts will be less affected.

Oyl of Scorpions of *Mathiolus* anointed on, will be very effectual.

To resolve more powerfully, The *Aqua Balsami Guidonis*, being anointed on, will be exceeding good.

Oyntment of Marshmallows doth loosen the external parts, and doth gently discuss the Morbifick matter; therefore towards the beginning, the whole Thigh may be anointed therewith, and the leg to the Foot by a flaming fire.

In the Progress of the Disease, this following being hotter and stronger, may be used.

Take Oyl of worms, Tiles, Turpentine, of each two ounces: Oyl of Foxes one ounce: Gum Ammoniack, and Sagapenum dissolved in *Aqua vite*, of each six drams: Fat Castoreum three drams: Euphorbium two Drams: Wax as much as shall suffice. Make all into an Oyntment.

Spanish Soap, or Castle Soap dissolved in Spirit of Wine, is most excellent, smeared on by the fires side.

Oyl of Tiles or Bricks alone, being anointed hot, after six Cupping-Glasses have been fastened upon the pained place, and about the same; and after the anointing, the place being covered with very hot Linnen-Cloaths, hath in one day cured a very stubborn Sciatica.

Lacuna in his Comments upon *Dioscorides*, doth commend the following Oyntments as wonderful:

Take the Juice of the Roots and Leaves of Dwarf-Elder, or Danewort, of each one ounce: Oyl of Chamomel six ounces: Boyl them to the consumption of the Juices. Then add Wax as much as shall suffice, and a few drops of Vinegar to make the vertue pierce. Make of all an Oyntment.

A Cataplasm of the Herb Iberis, wild Cresses, or Sciatica-Cresses, is much commended by Authors, because this Herb is very effectual in the Cure of this Disease. It may be made after this manner.

Take of wild Cresses four handfuls: boyl them in Wine, and beat them, adding thereto Meal of Lupines, Vetches, and of Beans, of each three drams: Powder of dried Rue, Chamomel-flowers, and Costus Root, of each one dram: Oyl of Turpentine half an ounce: Oyl of Earth-worms as much as shall suffice; Make all in into a Cataplasm.

Platerus witnesseth that it hath done much good, when green Sage hath been put on an hollow hot Tile, and often stirred lest it burn; and thus being half boyled and sprinkled with Venegar, and a Cloth put about the Tile, and the same put under the Hips, the Vapor thereof hath been received into the part affected.

Also a Loaf very hot out of the Oven, cut in the middle, sprinkled with *Aqua vite*, and laid on, will be very helpful.

To draw the Morbifick Matter outwards, a Cupping-Glass is good, four times fastened upon the highest part of the pained place, which appertains to *Os sacrum*, without Scarrification.

To the same intent, eight or ten Leeches fastened to the part affected, do much help, which are allowed and approved of by *Paulus* and *Aurelianus*. And *Zacutus Lusitanus* says, that in ten hours space he therewith took away the pain of the Sciatica, which no other Remedies could help.

Plaisters are likewise frequently used, and in this Case may do much. But in the use of them, this is always to be observed, as it hath been said generally of the rest; that at the first mild ones be applied, which if they do little good, we may arise to more vehement. Which order we will likewise observe in our setting down the making of such Plaisters.

Take Pitch used in ships, two ounces: Brimstone powdered very fine three drams: Mastich two drams: Turpentine half an ounce. Mix them, and make of all a Plaister, adding as much Wax as shall be requisite.

Take Ship-Pitch two ounces: Gum-Ammoniack, Bdellium dissolved in Vinegar, of each one ounce; Live Brimstone, Turbith, Hermodactils, of each half an ounce: Castoreum one dram: Turpentine a little: Wax as much as shall suffice. Make of all a Plaister.

Take Gum-Ammoniack, and Sagapenum dissolved in Vinegar, and then thickned again, of each two ounces: Emplastrum Diachylon cum Gummis, one ounce and an half. Melt all together. Then add Cinnabaris, Cinoper or Minium, and burned Brass, of each one ounce: Orpiment and Verdegreece, of each two drams. Make all into a Mass or Plaister. If it raise B'adders, lay a Linnen-Cloth between the Plaister, and the part affected.

If the disease do pertinaciously continue, we must proceed to a Veficatory, which doth draw out the Morbifick Matter, being applied to the part affected. Wherefore a Blistering Plaister must be

be laid on, either alone, or that it may work more gently, with some of the aforesaid, mingled in equal proportions; for so it may be endured upon the part a longer time. Or this following may be made fresh.

Take Ship-Pitch, Wax, white Pitch, of each one ounce and an half: Colophonia, Frankincense, Mastich, of each two drams: Euphorbium, Laudanum, Quick Sulphur, Opopanax, Ammoniacum, Bdellium, Galbanum, Sagapenum, of each half an ounce: Storax, and Benjamin, of each two drams: Cantharides three drams: Galangal, Cloves, of each two drams: Liquid Storax, as much as shall suffice. Make all into a Plaister.

In an old Disease, an Issue in the Leg on the pained side doth drive the Matter away, and sometimes cures the Disease. *Zechius* will have it made in the outside of the Leg. And if there be supposition of a Catarrh from the Brain, another must be made in the hinder part of the Head: For that hath sometimes cured an old Sciatica when nothing else would do it. And then likewise other Remedies, correcting the Brains distemper, must not be neglected.

Zacutus Lusitanus tells of his making an Issue behind the Ears with wonderful success, when the Humor came from the Head. Of this he makes a peculiar story, *Observat. 160 Book 2.*

During the whole Course of the Cure, frequent Clysters are to be injected, that part of the Morbifick Matter may be derived unto the Guts. Also to discuss the next and immediate Cause of the pain, this following hath sometimes been useful.

Take Rich Canary half a pint: Walnut Oyl, and Oyl of Rue, of each three ounces: Oyl of Turpentine half an ounce. Mix all, and make thereof a Clyster, to be cast in so often as the pain shall require.

And this following Clyster doth wonderfully draw the Humors from the part affected, in regard of its Neighborhood to the Guts.

Take Pulp of Coloquintida one dram: Lean Bran an handful: white-Wine a pint and an half: boyl all to a pint. Of the strained Liquor make a Clyster, and let the Patient keep it an hour.

The Hip-Gout is sometimes bred of Choller, and hot Humors, which is known when the pain is very sharp, and pricks, the pains are greater every other day, the party is lean, the Constitution of Body Cholerick, Age youthful, Country and Season hot, the pain is encreased by heating things, Cholerick Diseases have preceded, and hot Diet, and vehement Exercise; and then the Medicines must be fitted for Choler, and an hot distemper. Wherefore, Bleeding is good, Purgations of Choler, sometimes Lenitive, sometimes strong purging with Diagridium, that the Morbifick Matter may be brought forth; cooling Juleps, Emollient Clysters, cooling Milk, Bathing, and other Remedies propounded in an hot distemper of the Liver. Always being careful to avoid things Opening, and to chuse rather such as do incrassate or thicken, such as we propounded for a thin and hot Rheum.

The Pain being extream, some Narcoticks may be given, especially Syrup of Poppies, whereby the pain is allaid, and the flux of Humors stopped, by the Humors being thickned.

But *Laudanum Opiatum* is far more powerful, given to the quantity of three or four grains; which also dissolved in a Clyster of Broth or Milk, using a Purging Clyster before it, doth often take away the pain in a moment.

The external Medicaments must be gentler, as Oyl of Lillies, Violets, Chamomel, and sweet Almonds: Pulvestes of Lettuce, Night-shade, Endive, Barley-meal, with the aforesaid Oyls, and towards the declining of the Disease, Fomentations, Liniments, Milder Plaisters, and less Heating.

The Matter causing the Sciatica comes sometimes to maturity, so as to make an Impostume. Which *Hypocrates* shews in the third Book of his Epidemics in the History of *Eupolemus*, who had such an Imposthume, which killed him with a Consumption. If the Imposthume be opened, there remains a filthy ill conditioned Ulcer, which likewise pines the Patient away. Yet *Zacutus Lusitanus* glories, that he had often cured the Sciatica with an Ulcer, in *Obs. 126. Book 1.* which Observation ought to be read and diligently meditated upon.

Chap. 3. Of Rheumatick Pains of the whole Body.

AFTER Gouty Diseases properly so called, it is worth our while to treat of the Rheumatick disease, because of the likeness between these diseases, which verily is so great, that the generality of Physicians, which know not the Nature of this Rheumatism, are wont to call it the universal Gout. For in both diseases the Joynts are pained: but therein is the difference; In that in the Gout, only the Joynts are pained; But in this *Rheumatismus* or Rheumatick Malady, not only the Joynts, but also the whole Body, viz. The middle spaces between the Joynts, Namely, the

Muscles and their Membranes, and especially the Skins which cover the Bones, and the whole habit of the Body; yea verily, and sometimes the inward parts of the body, as the Stomach, Womb, Lungs are troubled with this Rheumatick disease.

And although the Greeks call a Catarrh by the name of *Rheuma*; yet this Rheumatism we speak of, differs from a Catarrh, being indeed contained under the general term of Flux of Rheum, yet of a different Nature from that kind of Flux which is commonly called a Catarrh, which comes onely from the Brain, and troubles no more than one or two parts; whereas this Disease we treat of, comes from the internal Bowels by the Veins and Arteries, and is shed into the whole body.

This is no new Disease, yet is it not sufficiently described by the Antients. We have a rude Draught thereof in *Hypocrates*; in his Book *de locis in Homine*: and in *Galen*, Book 1. of the difference of Feavers; and the first *de compositione Med. secundum Genera*. But the most notable and clear place of all, explaining this disease, is in the first Book of the Differences of Feavers, in ch. 7. the words are these: *Understand thou, That the Rheumatick disease so called, is caused by some such way as this; viz. The whole Body being weak, and the principal parts thereof, though they have but little blood, yet finding themselves burdened, they thrust out the same and expel it to the fleshy parts of the Skin.* Whereby it appears that the true Nature of this Rheumatick disease according to *Galen's* Doctrine, consists herein, That the whole Body is so weak, that when any principal part is burdened with blood, although it be in no very great quantity, it transmits the same to the fleshy parts and habit of the Body.

But that is not simply to be understood which is said by *Galen*, That the principal parts being burdened with blood, do thrust the same unto the fleshy parts of the Body. For so Inflammations and Swellings would arise in those parts. Whereas Experience shews, that in this Disease called *Rheumatismus*, for the most part there appears no swelling, no Inflammation, no change of colour in the parts pained.

CAUSES.] The next and immediate Cause therefore of this Disease, is a wheyish Humor, which by reason of its thinness doth not swell the parts; and because of the substance thereof, not apt to turn into Matter or Quittor, it never makes any Imposthume, but only a certain Inflammatory disposition, arising from the fervor of the wheyish Humor.

Now the Primary Original of this disease, ought to be ascribed to the Liver, which being affected with an hot distemper, and being weakned, breeds not blood convenient for to nourish, and affects the whole Body with the like weakness, whereby it becomes exceedingly disposed to receive all superfluities. And from the same distemper and weakness of the Liver, great quantities of evil Humors do arise, which being long detained in the Veins and Arteries, they become vitiously corrupted, and are there dissolved and turned into the Nature of Whey, and Blood-watry Liquors, and as an heavy burden, are by Nature cast off into the Ignoble parts, she being not strong enough to drive them out of the whole Body. Now these wheyish and blood-watry Humors being very sharp, do prick and cut (as it were) those parts unto which they are carried, from whence pains and torments do arise. And although we conceive the Liver to be the primary Cause and Original of this disease, yet it is apparent that these Humors do sometimes flow immediately from the Brain, because the pains do often begin in the Neck, and afterwards do descend unto the Shoulders and Arms. But the first generation of these sharp Humors was in the overheated-Liver, which being translated from thence into the Brain, do from thence afterward fall down into the inferior parts.

And although these humors are expelled by the Veins in manner of a Crisis, yet is not their motion so sudden, but it is performed by little and little; viz. When those evil Humors and corrupted, do boyl or work in the Veins, and are afterward leisurely by the Veins expelled and vomited as it were; for which cause this motion is wont fitly to be called, the Vomiting of the Veins.

That a serous or wheyish Humor is the principal cause of these pains, many Reasons do convince. First, because ordinarily they cause no swelling nor change of colour in the part affected; howbeit sometimes when the Humor doth much abound, it raiseth the part into a little, and very red Swelling, which nevertheless is easily discuffed. Secondly, because these pains are exceeding moveable, and do seize now this, now that part of the body, and are suddenly gone from one part into another, the former part being quickly well, and free from all pain; which sudden mutations cannot come but from an Humor very apt to move, and exceeding thin. Thirdly, Because this disease is often terminated by Sweating. Fourthly, because there appear many tokens of abundant Serosities in such as are troubled with this disease; Thin and abundant Urines beyond the Quantity of what they drink, and abundance of Wheyish Humors appearing in the blood that is taken from them.

And although a wheyish Humor be the principal, and most frequent Cause of these Rheumatick Pains, yet probable it is, that wind doth sometimes concur in the production of these pains. Which we may conjecture by the quick passage of the pain from one place to another, and because there is no weight or heaviness felt in the parts pained. This is the Opinion of *Avicenna*, who seems to describe this disease, and to assign windy Vapors for the cause thereof: *Fen. 1. Book, 3. Tract. 2. Chap. 7.*

Chap. 7. in these words. *In pain Caused by winds, the extension of the part is encreased, and the heaviness diminished, sometimes it is with pricking, and sometimes with Corrosion; and in a flatuous Pain there is no heaviness. And sometimes there is a Change of the Pain from one place to another.* These are the words of *Avicenna*: unto which he joyns these following, which seem to come nearer the description of this Disease we treat of. *And the wind is sometimes in the Coat, and Fibres of the Members, as in the Cholick from wind; or in the Coats of the Muscles and under the membranes, and upon the Bones, or in the Circumference of the Muscles, between the soft flesh and the Skin, or lurking in the member it self.*

And if any shall object, that Diseases arising from wind do not endure so long, because windy vapors are soon dissipated. We shall answer, that a wind contained in the parts pained is easily dissipated, whence comes often change of pains from one part to another; but there is a seminary in the Veins from whence winds may perpetually arise, and afterwards be carried to the parts aforesaid. Now this Seminary of winds is a thick, viscid Humor, and Flegmatick, which the Blood taken from them doth often testify to be redundant in such as are troubled with these pains; it being frequently thick and clammy like Glew, in appearance like crude and putrid flegm.

DIAGNOSTICK.] The knowledg of this Disease may easily be learned out of what hath been said: yet shall we discourse thereof a little more fully. First therefore; the parts affected with these pains, viz. The Muscles and the Membranes, and the Membranes which infold the bones, do distinguish this Disease from all other. For although the pains of the Letchers Pox, do possess both the Joynts and the spaces between the Joynts, and specially the Membranes covering the bones; yet they differ herein, because they do not so universally infect the whole Body, neither are so continual night and day, for they vex the party only in the nights, and very little in the day time; neither do they hinder the Patients from their business commonly; whereas this Rheumatick Pain, doth Nail them to their Beds, so as they can hardly stir themselves; neither can those that look to them, once so much as move them without great trouble and encrease of their Torments. And finally other signs of the Whores Pox have preceded or are present, as Gonorrhæa, the Whores Boil, Putrefaction of the Privities, and such like.

Other Symptoms also there are accompanying this disease, which help much to the knowledg thereof. For if you lay your hand upon the part pained, you feel a kind of sharpness with Heat, and commonly there is a Fever joyned therewith, but it is very small; and sometimes there is none at all. The blood which is taken away, evidently corrupted, thick and clammy like glew, and after many times bleeding, it is full of wheyish moisture, and so changed, that it hath not the appearance of blood. When the pain is quite gone or intermits, there remains no weakness in the part, as is usual in the Gout: Purging Medicaments at the beginning do no good, nor things outwardly applied to the part affected; they do rather augment the disease and the Pain: but when the disease begins to decline, both are profitable.

PROGNOSTICK.] As for the Prognostick, this disease is seldom or never deadly, but is very troublesome to the Patient by its length: for it continues two or three months, if it be without a Fever; Nay verily, sometimes if it be not rightly cured, it continues for a year or years. *Franciscus Portus*, who in an elegant verse hath written Poems of Physick, speaking of this disease relates, that he was troubled with this disease for two years space, which at length he overcame by the earnest Endeavours of six Physicians of *Paris* the most famous in their times, viz. *Basinus, Belly, Quercus, Sanjacobæmus, Seguinus, and Hollerius.*

If this *Rheumatism* do begin with a Fever, it is wont to be the shorter, but it torments the Patient with more direful and cruel pains: and then it finisheth within twenty or forty days, or at least, it is much lessened.

This Rheumatick Pain coming upon the Neck of other diseases, as an Apoplexy or Convulsion, doth make the Case less Dangerous, the Morbifick matter being translated from the internal Parts to the habit of the Body.

Sweats happening in the Declination of the disease are good.

Thick and abundant Urines in the Declination, do bring an end to the disease.

CURE.] For the cure of disease the morbid matter must be revolved, mitigated and Evacuated, the distemper of the Bowels must be corrected, and the strength of all the parts, both the sending and receiving, must be maintained.

All which may be done by these following Remedies:

Take Leaves of *Mallows, Violets, Beetes, Lettuce, Borrage*, of each one Handful. *Annis-seeds* two drams: Boil all to twelve ounces, in the strained Liquor dissolve Honey of *Violets* and Sweet Butter of each two ounces: Make thereof a Clister. Give it at a convenient hour, and repeat it every day, or every other day during the whole Course of the disease.

When the Clister is come away, open a Vein in either Arm, and take away eight or nine ounces of Blood. It matters not on which Arm the Vein be at first opened, because Blood-letting must be often

often repeated, and the Veins of both Arms divers times opened. Blood must therefore be drawn every day from the beginning of the disease till the disease come to remit, and the pains to lessen; neither matters it though the Patient be let blood ten or twelve times one after another in so many days, because it is a peculiar property of this Disease, that the Patients strength is not diminished by frequent bleeding, as in other Diseases it is wont to fall out. My manner therefore is, in these Diseases when I appoint Bleeding so often, lest the friends and attendants, or the Patient should be affrighted with so frequent Blood-letting, to add this restriction, that Blood letting be continued every day, till either the Pains be diminished or the Patient much weakened. And seeing no weakness follows the continual use of this Evacuation, the Patients do willingly undergo the same, and are easily persuaded to repeat the same. Now the condition of the Blood it is which makes this easie bearance, which in this Disease comes always away very much corrupted. Experience shews how profitable this frequent Blood-letting is; for by the constant continuance thereof, the Disease which is wont (as was said in the Prognostick) to be long, is often mastered in a short time. And experience shews that large bleeding at the Nose, if it happen to one that hath this Disease, it perfectly Cures that party, *Hypocrates* seems to hint at this in Aphor. 74. Sect. 4. *Those who are likely to have an Imposthume about their Joynts, are freed from that danger, if they void much thick and white Urin, such as in painful Feavers, some begin to make upon the fourth day: and if withal their Nose Bleeds, the Disease will very soon break,* For the falling down of Humors into the Joynts tending to an Imposthume, hath some analogy with this Rheumatick Disease we treat of. Also the same *Hypocrates* seems to propound a certain adumbration of this Disease in the second of his Predictories, and ascribes the cause thereof to the suppression of some usual Hemorrhage or Bleeding, in these words. *They who have pains and swellings about their Joynts, which are allayed not as the Gout uses to be, in such you shall find their bowels long, and a white settling in their Urine, &c.* Afterward he adds; now this Disease be- tides those who in their Childhood and in their youth have been accustomed to Bleed at Nose, which custome hath left them.

Whiles these bleedings are practised, Clusters (as was before said) must be given every day, or every other day; also Juleps must be given, which have power to correct the distemper of the Bowels, and to mitigate the acrimony and agitation of the Humors. To this intent Red poppy-water is very profitable in this Disease, it is to be given alone Morning and Evening six ounces at a time, with Syrup of Lemon: and Pomegranates in form of a Julep; howbeit it is no less effectual alone without the Syrup.

For ordinary drink, let the Patient use a Ptisan drink of Barley, Grass and Liquoris; or of the Decoction of Sorrel Roots, or of the Tincture of Roses: abstaining from Wine which is the great *Vehiculum* or Spreader of all Flowing Humors.

Purgation in the beginning, Augment, and state of this Disease, doth no good at all; Nay verily it doth hurt, for it sets the Humors on running, and encreases the pains; as it is wont to fall out in all Inflammatory dispositions. But in the Declination it is necessary, and frequently to be celebrated, and that with gentle Medicaments, that the evil Humors abounding in the whole Body may be Evacuated by degrees. To which purpose this following potion may be prescribed.

Take Senna and Tamarinds of each half an ounce: Annis seed and Cream of Tartar, of each one dram: Sorrel Leaves half a handful. Boyl all to three ounces: In the strained Liquor dissolve Manna and Syrup of Roses of each one ounce. Make a potion, to be iterated divers times, as the Physitian shall think fit.

If the form of a Bole be more desirable, it may be thus made:

Take Cassia new drawn six drams: Catholicum doubled three drams: Rhubarb in Powder and Cream of Tartar of each one dram: with Sugar make a Bolus.

If you would purge more effectually, add to the potion or the Bole, a scruple of Jallap.

If these Purgations shall not suffice to eradicate this Disease (which is often very rebellious) we must proceed to stronger Purgatives, as *Electuarium Diaphænicum*, *Diaprunum Solutivum*, and such like, provided there be no Feaver. I have always cured this Disease (when the foresaid Medicaments could not do it) with *Mercurius dulcis* six times sublimed, being given divers times to the Quantity of a scruple with ten grains of Scammony or Rosin of Jallap. An example of which kind of Cure is to be seen in my observations, viz. in Obs. 41. Cent. 3. One only Clister of Vomiting Wine, Cured this Disease in a certain Gentlewoman, as you have it in Obs. 22. of the same Century.

Touching Sweat drivers, the same is to be said which was said of purges, viz. that they in the beginning, augment and state, do no good; Nay do very much harm: which the common sort of Practitioners find by experience, who being deluded with the likeness of a true Catarrh, and wearied with the stubbornness of the Disease, do flie to Sudorificks, by which the Disease is doubled, and the Pains encreased. But in the Declination, after due Purgations, no Feaver being present, they may do much good, and they made be may of a Decoction of China, or Sarsaperilla; or sweat may

may be procured in a Laconick Bath with Spirit of Wine or some appropriate Decoction.

After sufficient Evacuations, yea rather while they are celebrated, we must be careful to strengthen the whole body and the principal parts thereof; which Indication *Galen* in 1. of the Difference of Feavers Chap. 6. where he expounds the Nature of this Disease, says, is to be preferred before all others, in these words. *Justly therefore the Aim of a Physician in curing these kind of Patients, is not Evacuation, but Roboration of the whole Body.* Which is not to be understood, as if no Evacuation were fit in these Cases (for the same *Galen* begins the Cure of this Disease by Blood-letting) but that we must make more and more often use of strengtheners, and less and seldomer use of Evacuations. Yet sure enough it is, that the parts cannot be strengthened, unless the superfluity of Excrements, by which they are burthened, be purged out.

Now these strengtheners we speak of, must be of a cooling Vertue; seeing (as was said) the over-hot distemper of the Liver gives beginning to this Disease. There is great plenty of such Medicaments in Authors: of these I shall propound four, which I account most effectual and least ingrateful to the Patient.

The First is the Tincture of Corals, two ounces of which the sick may take in a morning, two hours before Meat, every day on which no other Medicaments are administered.

But because the Tincture of Corals cannot long be kept; it is reduced into Syrup for longer keeping, with Sugar, of which two spoonfuls may be taken in the morning: but the Efficacy thereof is much less, than of the simple Tincture.

The Second, is the Conserve of the fruit which grows upon the Rose-Briar or the Eglantine Briar, which is most pleasing to the taste, cools the Liver, and by a gentle astringent Corroborates the same. The Patient may take thereof the Quantity of a Chestnut, Morning and Evening.

The Third is the Electuary of *Triasantalon* with a four-fold proportion of Rhubarb, made into Lozenges; two drams whereof the Patient may take every day, and drink a little ordinary drink thereupon.

The Fourth is a Tincture of Roses, a Cup whereof the Patient must drink, once, twice, thrice a day far from Meals. It is thus made,

Take Red-Rose leaves dried one ounce: Water, Blood-warm three Pints: Spirit of Sulphur or Vitriol one dram and an half: Infuse them six hours: To the strained Liquor add white Sugar half a pound: keep it in a Glass for Use.

The aforesaid Remedies or some of them must be used in course one after another, lest Nature be too much accustomed to one, and so the less altered thereby.

When the Disease is Cured, the Patient must be cautious for a time lest new matter being collected, a Relapse should happen. The Prevention therefore hereof, will chiefly consist in a state or periodical Purgation, to be iterated once or twice every month; which may fitly be done by this Magisterial Syrup following, which will do more good by altering and strengthening the Liver than by purging.

Take Juices newly prest and cleared by settling, out of Endive, Cichory, Agrimony, Fumitory, Hops, and Bugloss three pints: Juice of Apples that are Odoriferous, as Pearmains and Pipins, two pints: Senna six drams: Epithymum two ounces: Rhubarb elect, and Agarick newly trochiscated of each one ounce: Mace and Cloves of each half a dram, Infuse and boyl all according to Art, till there remain fifteen ounces of the Liquor; wherein dissolve of white Sugar the same Quantity, and make a Syrup perfectly boyled. Of which let the Patient take two ounces once or twice in a month, with Chicken or Veal-Broth, qualified with the Leaves of Borrage, and Ceterach and Agrimony.

Also spring and fall 'twill be good to open a Vein.

Furthermore, to temper the fervency of the Liver, a Bath of Luke-warm Water will be good, which must be frequently repeated the whole Summer through; or for more conveniency, a Tub to sit in may suffice.

To the same intent Conserve of Bramble-Rose or Eglantine-Rose-Berries will be good, or an Electuary of the same vertue, and Lozenges made of the Species *Diatrion Santalon*, being frequently used.

Hereunto must be added a good Diet of Meats affording good Juice and easily digested, as Partridges, Capons, Chickens and Pullets; especially broths, and the Juices of flesh pressed forth, and such like, all which must be taken in no great quantity, that they may be more easily digested.

The End of the Sixteenth Book.

THE
Seventeenth BOOK
OF THE
PRACTICE
OF
PHYSICK.

Of *FEVERS.*

The *PREFACE.*

WE find by many Authors great Volumes written touching the Theory or Cure of Fevers; in which, innumerable Controversies, and difficult Disputations are handled. Which as they are in the Schools very useful, yea, and necessary; so are they tedious to most Physitians, who having left the Universities, do give themselves unto the Practice of Physick: For they desire a short and clear Explication of the Theory of Diseases, which may suffice to declare their Nature, Causes, and Signs, both Diagnostick and Prognostick, with their Right Method of Curing, which is the only thing they regard. It being my endeavour in this whole Work to satisfy their desires, I have banished all Controversies, briefly expounding the decision of Questions only which seem most necessary for a Practitioner. This we have likewise done in our Doctrine of Fevers; and letting pass all tedious Controversies, which are continually handled in the Schools, usque ad Nauseam; we have declared only such things as principally regard Practice. And this Book for better Methods sake I have distributed into three Sections, following that General Division of Fevers, into Simple, Putrid, and Pestilential. So that the first Section of this Book shall treat of Simple Fevers: The second of Putrid: And the third of Pestilential.

SECT. I.

Of Simple Fevers.

The *PREFACE.*

That which we call a Simple Fever, is subdivided into three sorts; of which, one is called Ephemera; another Synochus simplex, or Imputris; and another Hæctica. And therefore we shall divide this Section into three Chapters: The first of Febris Ephemera: The second of Synochus simplex; The Third of Febris Hæctica. Wherein we shall declare their Nature and Cure.

CHAP.

Chap. I. Of the Fever Ephemera.

CAUSES.]

THis Fever is commonly bred of external causes, and of vehement motions of Body and Mind, as Anger, Cares, Labor, Pain, Watching, and Fasting, by which the Spirits are inflamed; also by Sleep and Sorrow, by which the hot Humors and Vapors are kept within the Body. Also by being heated with the Sun, Fire, or Stove, by which means, hot Air being drawn in with the Breath, and received by the Pores of the Body, it doth inflame the Spirits. Also by Surfeiting, Drunkenness, and especially by over-large taking in of Meats and Drinks, that are of an hot nature, as peppered Meats, and strong Wines, by which more Vapors are raised than can exhale. Also by Retention of hot Excrements, and that not only of the Dung and Urine, but especially of those Sooty Vapors which are wont to pass through the Pores of the Skin, if those Pores be shut up with cold, and Alluminous Bath, and such like Causes.

Also this *Ephemera* Fever is bred of internal causes, as from a Bubo, and other Swellings of the Thighs or Arms, especially whiles they break; from an hot fiery Swelling of the Extremities of the Body, when hot Matter shut up together in one certain place, doth offend the heart, not by its putrefaction, but heat alone. Also by some small obstruction of the Vessels, by which means the sooty exhalations being retained, do cause a Fever; as is wont to happen in the Distillations, when they arise in hot Natures, and a thick habit of Body.

DIAGNOSTICK. This Fever is known, both when some of the causes specified have gone before; and also by a swift, frequent, and great Pulse: Breathing frequent and great, Head-ach and heat; there is neither cold nor shaking, no sense of weariness, nor want of Appetite. Yet may there be sometimes a shivering or shaking fit; Namely, when the Fever is occasioned by the heat of the Sun, or by cold. Feeling the Patients hand we find a mild and gentle heat; the Urine is concoct, like that of one in health, unless by some obstruction or crudity it be changed. It is commonly terminated in the space of twenty four hours, with an easie gentle Sweat; yet it reacheth sometimes unto the third day, which if it pass, it degenerates into a simple Synochus, a Putrid, or an Hectick Fever.

CURE.] For the Cure of this Fever the Antients did chiefly use a Bath of luke-warm Water, which they did also frequently use in their Health. But seeing it is in these times out of use, neither is it practised in the cure of these Fevers. Neither is it counted safe, in regard of a Plethorick or a Cacochymical Constitution of Body, putrefaction, or flux of Rheume, which may be in such Bodies, or may be feared will happen.

But this Fever is better cured by a Cooling and moistening Diet; as Barly Cream, Cooling Broths, Small-drink and Sugar, common Ptisan Drink, or Fountain-water with Syrup of Lemons, or Maiden-hair mixed therewith.

But the Cure admits some variation, according to the Nature of the cause. So if it spring from the heat of the Sun or Air, a cooling Diet is good, and the patient must be conveyed into a cool lodging; and Vinegar of Roses must be applied to his forehead, to the temples and former part of the Head itself, if there be pain, as commonly there is when the Fever comes from the heat of the Sun.

If it come from being in the Cold, especially if the Patient being hot with exercise, went presently into the Cold. Sweat must be provoked, especially towards the end of the Fit.

If it come from the Skins thickness and closing up of the pores, the same Cure must be used; and to both these causes, small Wine very well allaid with water, may be convenient, because it opens the pores, and helps to sweat.

If the Disease was caused by Labor, the patient must rest and be nourished more liberally with Meat of easie Digestion. If from weariness, the patient must be artificially rubbed. Tranquility of mind, and cheerfulness, must be opposed to Anger; and Choler must be tempered with meat and drink of a cooling Nature. To Sadness, Recreation of the Mind is a Remedy, and the use of thin small Wine. If the Fever was caused by watching, let the patient sleep by application of things convenient: If by fasting, let the patient eat cooling meats of good Juyce; If by over-eating or Drinking, let the patient abstain from Meat and Drink, not omitting such things as strengthen the Stomach, both inwardly given, and outwardly applied: also with an Emollient and Laxative Clyster, part of the Crudities is to be taken away. If putrefaction be feared, a Vomit may be procured, or a purge given. If the Fever arise of Obstructions, we must consider, whether the patient be plethorick or Cacochymical, viz. Whether the whole Mass of blood be over great, or only some bad Humors abound in the blood. If the patient be too full of blood, letting blood must be advised; if evil Humors only abound, a purge must be described. And if the Obstructions will not easily be removed, this Fever changeth into some of the other sorts of Fevers, whose cures shall be described in their proper places.

Chap. 2. Of the Fever Synochus Simplex.

CAUSES.

THe Causes of the Fever *Ephemera* aforesaid, if they light upon a Plethorick Body, and thick Skinned, they cause the Fever *Synochus Simplex*. Yet may this Fever arise only from abundance of Blood stuffing the Veins, and yielding many vapors more than can breathe through the pores of the Skin.

DIAGNOSTICK. This Fever is known by a thick and swelling habit of Body, the colour of the Body and Face is ruddy; the Head is pained with a stretching or distending-kind of pain, the Patient is sleepy, hath a beating in the Temples, is unquiet, hath a straitness in the Chest, with difficulty of breathing; the Pulse is great, even, frequent, full; the Veins strut with blood, whence a stretching kind of weariness doth proceed; the Urine is thick, little differing in colour from a Natural Urine, only somewhat redder; the heat is to ones hand mild, tempered with a steamy Vapor; the Fever holds an even progress; for either it holds one and the same tenor, or it lessens by degrees, or it encreaseth equally, never remitting or ceasing. Whence there are reckoned three Differences of this Fever; For that which continually encreaseth, is called *Epacmaistica*; That which continually decreaseth, is called *Paracmaistica*; That which keeps one and the same tenor, is called *Homotonos*, or *Acmaistica*; It lasts till the fourth day, and sometimes till the seventh; and then it is terminated by bleeding, or sweating; and if it be further prolonged, it degenerates into *Synochus Putrida*.

CURE. The Cure of this Fever is performed by blood-letting, by cooling, and by opening the pores of the Skin. *Galen* in the ninth Book of his Method, Chap. 4. cures this Fever by two Remedies only: viz. Letting of Blood till the Patient faint away; and by giving a great quantity of Water to the Patient to drink.

Blood-letting is absolutely necessary in this Disease, because it is bred by fulness of blood; and a Vein must presently be opened at what hour soever the Physitian is called, unless the Patients Stomach be full of Meat, the digestion whereof must be expected for certain hours. And although blood must be plentifully drawn; and *Galen* reports in the fore-cited place, That he cured the most of such as had this Fever, suddenly, by letting them bleed till they fainted away; which bleeding was attended by a looseness, vomiting of Choler, and plentiful Sweat: Yet in these days of ours, that same large blood-letting is out of date: which is not without danger, seeing *Galen* himself relates in his Book of Curing by Phlebotomy, Chap. 12. That it befell three Physitians, while they were practising this large Blood-letting, that instead of fainting away, their Patients died outright. It is better therefore at several times to take away so much blood, as the Nature of the Disease doth necessarily require.

Before blood-letting, if the Patient be costive, or the Guts abound with Crudities, an Emollient and Laxative Clyster must be given.

As for the point of cold water, *Galen* orders it to be given in so great quantity, that the Patient grow pale, tremble, and be cold all over; and so he says, it extinguisheth the fiery heat, it strengthens the solid parts, and drives out unprofitable Humors by stool, by Urine, and by sweat. But he says there must be many Cautions in the use thereof; viz. That it be given in the Vigor of the Fever, the signs of Concoction appearing; that the Patient have been used to drink cold Water in time of health, have strong bowels, and full of Juice, a fleshy and well set body; have a constant and vigorous strength, be not full of thick and clammy Humors, have no Tumors in any Bowel, nor Stomach, Throat, or Sinews weak. Otherwise if these conditions be wanting, it is to be feared lest the Patient fall into shortness of breath, Dropsie, Trembling, Convulsion, Lethargy, or some other grievous Disease.

This kind of Medicine is likewise grown out of date in our times, seeing it is hard to observe all those conditions, and so many dangers as attend the undue use thereof. For it is better to use other more safe Medicines which cool the whole Body, and the Blood; as Juleps, and opening Emulsions, Epithems, Liniments, and a Diet altogether cooling. Juleps are made of the Decoction of Barly, or Sorrel, or Cichory; or with water of Cichory, Endive, Sorrel, Lettuce, adding Syrup of Juice of Cichory, Lemmons, Pomegranates, Vinegar, &c. Whereunto also for the greater cooling and opening, may be added some drops of Vitriol, or Sulphur. If the distilled waters seem too crude or raw, let them boyl with a little Species *Trisantalum*, or *Diamargaritum frigidum*.

Emulsions may be made after this manner:

Take sweet Almonds blanched and steeped in Rose-water, one ounce; the four great cold seeds, and seeds of white Poppy, of each two drams. Beat them in a Marble Mortar, pouring on by little and little, a pint and an half of Barly-water. In the strained Liquor dissolve Sugar of Roses three ounces. Make an Emulsion of Almond Milk for three Doses. Which will be convenient, and is to be preferred before Juleps, if there be want of rest.

Epithems

Epithems to be laid upon the Region of the Heart and Liver, may be thus made :

Take Water of Roſes, Bugloſs, and Lettuce, of each three ounces : Vinegar of Roſes one ounce : Powder of the Electuary Diamargaritum frigidum one dram and an half : Camphire ſix grains. Make an Epithem, lay it upon the Region of the heart.

Take Water of Endive, Cichory, Sorrel, of each four ounces : Vinegar of Roſes an ounce and an half : the three Sanders two drams and an half. Make an Epithem for the Region of the Liver.

A cooling Oyntment may be anointed upon the Liver and Loins, of Vinegar of Roſes *Unguentum Roſatum*, *Unguentum Refrigerans Galeni*, or *Ceratum Santalinum* waſhed in Vinegar, tempered with water.

If the Diſeaſe ſeem to lengthen, after bleeding we muſt purge, leſt the wheyiſh and Cholerick Excrements putrifie, and thereby a putrid Fever ariſe. But we muſt uſe ſuch Medicines as purge without heating and agitating of Humors, as Caſſia, Manna, Syrup of Roſes, Tamarinds, Catholicon, and ſuch like.

Add hereunto a convenient Diet, viz cooling, moiſtening, and thin, of Broths made with cooling Herbs, prunes, ſharp Apples boiled, and Panadaes.

Let the Patients drink be a Decoction of Barley-water boyled, and water with Bread boyled in it, or mixed with Syrup of Maiden-hair, or of Pomegranates.

Chap. 3. Of an Heſtick Fever.

AN Heſtick Fever occupies the ſolid parts of the Body, which conſtitute the Habit thereof, and are commonly called Spermatical, or fleſhy ; in regard of which parts it is more fixed and rooted than other Fevers which are in the Spirits or Humors. For which cauſe it is alſo termed Habitual, becauſe it is become Habitual, and can hardly be removed from its ſubject.

There are many Diviſions of this Fever. For firſt of all, there is a primary Heſtick, which begins of it ſelf ; and another Secondary, which follows other Fevers. Secondly, an Heſtick Fever is ſimple and ſolitary, or joyned with a putrid Fever. Thirdly, ſome Heſticks begin at the Heart ; others from other parts, as the Lungs, Liver, Spleen, Kidneys, Womb, and other parts inflamed, ulcerated, corrupted, or poſſeſſed with ſome other grievous Diſeaſe. And this Fever though it have its habitual ſeat in the Heart, and the whole Body ; yet it is commonly termed Symptomatical, becauſe of its firſt Original which it hath from other parts.

Galen makes three degrees of an Heſtick Fever. The firſt is the very beginning of an Heſtick, in which the Body is hardly extenuated ; yet the moiſt Humidity of the Body is inflamed, conſumes, and dries. The Second comprehends the Argument, and therein is an evident extenuation of the Body, the fleſhy and fat ſubſtance of the Body periſhing. The Third contains the ſtate of the Diſeaſe, and its laſt age ; for it never comes to a declination, becauſe therein, viz. in that degree it is incurable : for then the fibrous and membranous ſubſtance of the Body is conſumed, and the whole body is ſo extenuated, that the Face of the Patient is like that deſcribed by *Hypocrates*, nothing but Skin and Bone. This laſt degree is called *Marasmus*, or rather *Heſtica Marasmodies* ; becauſe in a true *Marasmus*, cold is joyned with dryneſs.

CAUSES. The Cauſes of an Heſtick Fever are divided into an Internal, and External. To the External are referred what ever Cauſes may occaſion any of the other Fevers, if the Action of Heating be continual and vehement, or the Patients Body be apt to entertain this kind of Fever : Such are, the heat of the Sun, or of the Fire, vehement exerciſe, Meats and Drinks that are heating, immoderate Evacuations, as in a looſneſs and Bloody-flux, vehement paſſions of Mind ; and finally, faſting in a Cholerick, Body that is hot and dry of Conſtitution ; ſeeing *Galen* affirms, that thoſe Phyſitians that were wont to enjoin their patients to faſt three days together, did bring Cholerick Conſtitutions by that means into burning and Heſtick Fevers.

The Internal Cauſes are, burning and Peſtilential Fevers, which do ſpeedily conſume the moiſture of the heart ; alſo a long ſlack Fever. Alſo ſome peculiar Diſeaſe of any of the bowels, as an Inflammation or Ulcer ; or putrefaction of ſome Humor contained therein ; or finally, the corruption of the Member it ſelf, which are wont to cauſe a lingering Fever, and an Heſtick.

Of theſe infirmities peculiarly poſſeſſing ſome certain Members of the Body, and cauſing an Heſtick, we have Examples manifeſt enough. For as for what concerns Inflammations, *Galen* ſaith he ſaw a woman that by reaſon of an Inflammation in her Midriff, fell into an Heſtick Fever. And we daily obſerve in the Conſumption of the Lungs, or *Phthiſis*, a complicated Heſtick Fever. The putrefaction of Humors contained in ſome bowel, falls out in great obſtructions, or cold ſwellings. The Corruption of ſome Member is often ſeen in the Lungs ; ſometimes in the Liver, in ſuch men as are given to Wine, and who uſe much hot Spices ; for a certain filthy corrupt blood is bred in their

their Liver, by which the substance thereof is corrupted. *Fernelius* says, he sometimes met with this kind of Fever, and that it is a sign thereof, when the Patients extreamly covet Wine, but abominate all kind of Flesh.

DIAGNOSTICK. A Simple Hectick Fever is known, because it is continual, without any fits, always alike, neither encreasing nor decreasing, save that it is somewhat augmented an hour, or two or three after Meat. The heat under the short Ribs, is at first laying on the hand mild, afterward sharp, biting and dry. The Pulse is little, frequent and quick; the sick perceive not any Fever, they are lazy, and loath to stir; and when they stir it is with pain, because their strength is in a languishing condition. Their Arteries are hotter than the parts circumjacent, which may be perceived by the touch after the Patient hath washed in cold water. The Urine is like that of one in health both in point of colour and sediment. In the progress of the Disease, Oily substance swims on the top, and the sediment is like to Meal, which is a sign that the substance of the Body doth melt.

More particularly, we may know not only the several degrees of an Hectick, but foresee it before it comes, after this manner.

An Hectick Fever at hand, is known, if the causes have preceded: *viz.* If there have been a burning Fever in a Body naturally hot, dry, and of a thin contexture, in an hot season of weather, it is to be feared the Patient will fall into an Hectick, and such remedies as may prevent the same are to be used.

The first degree of an Hectick Fever, if it be joyned with a putrid Fever, is very hardly known: if it be alone, not very easily. In the first day, there are all the signs of *Febris Ephemera*. In the second, the dryness is augmented, not the heat. On the third day it repeats not, it is not evidently augmented or diminished. And at length one hour or two after meat, the heat seems somewhat encreased.

In the second degree, the Patient perceives no Feverishness, only some alterations after meals. There is a manifest dryness, a smaller and swifter pulse, with a certain hardness.

The signs of the third degree are most manifest: the eyes are hollow, dry, and have dry Excrements in them, the bones evidently stick out, the lively colour of the Face is extinguished: the whole Skin is dry, the Midriff, vehemently contracted, so that the Patients seem to have no Guts. Their pulse is perceived under the stomach, in all extenuated persons.

And because a putrid Fever is many times coupled with an Hectick, they are both exactly to be distinguished, because it is of great moment in regard of the Cure, which in this case is very much differing. Now this coupling may be known by comparing the signs of an Hectick propounded, with the signs of a putrid Fever, which shall be hereafter described in their proper place.

PROGNOSTICK. The first degree of an Hectick Fever is easily Cured, the third is incurable; the second is of a middle nature; and look how much the nearer it approaches to the first or third, by so much is it easier or harder to be cured. An Hectick Fever happens most commonly from the eighteenth year to the thirty fifth, for in that Age the heat is most intense, and soonest consumes the Body. But they who before this Age, or a little after, are taken with an Hectick Fever, do more easily escape, and are sometimes cured perfectly; or by a palliative Cure their life is protracted a long time, especially if they be Women.

CURE. For the Cure of this Disease, we must first consider whether it depend upon any Disease of some particular part or not: for then the Cure must be directed to that Disease: as also if it be single, or combined or complicated with a putrid Fever. And in this case the putrid Fever is first to be cured by bleeding, purging, and by opening Medicaments, and such as hinder putrefaction; the Hectick Fever in the mean while not being neglected. But if the Hectick Fever be single and alone, the cure must be effected only with cooling, moistening, and restorative things: the manner of which must be taken from Diet and Medicine.

Diet here, as in all Chronick Diseases, can do much; Nay in this Disease it can do more than all Medicines. Therefore the Patients Diet must be by the Physitian exactly ordered, *viz.* That it may be directed so as to cool and moisten the whole Body. If therefore the Air where the Patient is, be moderately cold or temperate, let him use the same; if not, let it be corrected, so as that it may incline to cold and moist. For this reason *Galen* in the 10. of his Method Chap. 8. in the Summer when the Air is hot, orders the sick to abide in a Room under the Ground, that is very cold and blown through with the wind, open towards the North. By which Remedy alone, we have seen a man extreamly consumed, restored within a month. Again, the heat of the Air in the Patients Chamber must be altered, by cold Water being poured out of one Vessel into another, by the very noise whereof Sleep is caused; also by moistening the Pavement often with cold water sprinkled thereupon, or by cooling Herbs oftentimes fresh strowed therein: and by forbidding any number of people to come in, which among other things, doth likewise heat the Chamber. And *Galen* gives order that when the Air is coldest, it should be received by the sick, namely, by drawing it in by the mouth, because it exceedingly cools the heat of the heart; but it is not good for the body of the sick, lest it stop the pores of the Skin, and hinder the breathing forth of Excrements.

Excrements. But *Galen* affirms that the breathing in of the cool Air doth the Patients more good, than they can receive hurt by the stopping of their pores, if that should happen: but that may be hindered by warm cloathing of the Body. Yet it is to be observed, that if the Heſtick Fever arise from an Ulcer in the Lungs, that the cold Air is not good in that respect, but rather temperate, a little inclining to heat, and dry. For which cause *Galen* sent those that had Consumptions of their Lungs, to the Mount *Tabias*, where the Air was more dry than ordinary.

The Meats of the Patient must be cooling and moistening, and quickly nourishing, as Chicken-Broths, and Broths of Hens, Capons, Veal, Kid, Wether-Mutton, Yolks of Eggs, with *French* Barly, Lettuce, Purslain, Endive, Borrage, Sorrel; The flesh of Calves, Kids, Pigs, Pheasants, Partridges, young Hares, and such like: Panadaes, Barley-Cream, Water-gruel, Rice-pottage, with Sugar and a few Almonds, or rather with the greater cooling Seeds. Boyled Meats are fitter than Roasted, which are sooner Inflamed and turned to Choler; the boyled do more moisten. But if the Patient be more diligent with roast Meats, they must be very moderately Roasted, and tempered afterwards with Juyce of Lemmons, Citrons, Oranges, or of unripe Grapes, without Salt.

Fishes may be eaten, because they cool and moisten; but such as are taken out of stony places, are to be preferred, and such as have a tender friable flesh, haunting the Sea or pure Waters.

Among fruits, Apples are commended because they breed cold Blood. Also Pears are convenient, Damask Prunes, and *French* Prunes boyled in Sugar; also Raisins cleansed, which being prepared after this following manner, do nourish the Body without heating.

Take Raisins of the Sun cleansed, one pound: Let them be tempered in Endive, Bugloss and Rose-water, and very diligently washed, that the Laxative power may be taken away. Afterward let them be lightly boyled in the same Waters, adding a little Sugar, wherewith let them be preserved for use; let the Patients take of them in the mornings, and always after meat.

And because persons that are Heſtical, have the Feverish heat fixed in the solid parts of their Bodies, by which the Nutriment is easily and suddenly consumed and dissipated; therefore Practitioners are wont to prescribe unto them, Meats solid and of a clammy substance, as the feet of living Creatures; the flesh of Snails, Crabs, Tortoises, and of Frogs. For seeing their sorts of flesh are moist and clammy, they easily adhere unto such parts of the Body as want nourishment; neither are they easily consumed by the Feverish heat: and so they hinder the drying up of the solid parts of the Body. Yet some do reject these Meats, because hard of digestion, and troublesome to the Stomach. But this difference is thus reconciled: In the beginning of an Heſtick, while the digestive faculty is yet strong, these thick and clammy nutriment are convenient: but in a confirmed Heſtick they are not to be given, because hard to digest. Add hereunto, that they may be so prepared and qualified, as that they may easily be digested; as by being boyled to a Jelly, or giving only what is strained out of them, being beaten to a mash. Among other things the Land-Tortoises are mightily praised for an Heſtick, not only for a single Heſtick, but when joyned with a Consumption; and they are prepared divers ways; For either they are boyled in Water till they are dissolved, then casting away the shells, the flesh is seperated from the bones and boyled again with Cichory, Sorrel, Borrage, French-barley, and Prunes, in a single Heſtick; but in an Heſtick of the Lungs it is boyled with Bramble Leaves, Purslane, and Plantane. Let the Patient drink the broth and eat the flesh twenty days together. Or the Juyce is pressed out of the Flesh being beaten. Or little Loaves are made of the Flesh of the Tortoises boyled in Barley-water, with sweet-Almonds, Pine-kernels, the cooling Seeds and Sugar: Which are lightly baked in an Oven, and are given the Patient at Dinner and Supper. They may be thus made.

Take of the Flesh of Land-Tortoises boyled in Barley-water four ounces: Sweet-Almonds steeped in Rose-water six ounces: Pine-kernels so steeped two ounces; of the four greater cold Seeds, of each one ounce: Annis-Seed not powdered, but lightly baked in an Oven, one dram and an half: Cinnamon two drams: Sugar dissolved in Rose-water, to the quantity of all the rest. Make thereof little Morsels.

Instead of Tortoises, the Flesh of a Capon is used, and of a Partridg, and March-pane is made thereof, good to restore Heſtick persons, after this manner.

Take-Pulp of a Capon and Boyled-Partridg, of each three ounces, Sweet-Almonds steeped in Rose-water four ounces: Pine-kernels one ounce and an half: Seeds of white Poppy two drams: Gum-Arabick and Tragacanth of each one dram and an half: Pearled Sugar-Cakes two ounces: with a little Rose-water make a March-pane, and gild it with Gold.

To such as have weak Stomachs, Jellies, Broths, and restorative stilled Waters are given. A Jelly may be made after this manner.

Take a choice Capon, a Knuckle of Veal, or a Wethers Thigh, two Calves Feet, or six Wethers Feet; Boyl all in Fountain-water, till it be sufficiently wasted. Strain and squeeze out the Juyce and Broth, and take off the Fat. In the strained Liquor dissolve a pound of white Sugar, six whites of Eggs, a little Saffron or Cinnamon. Stir them together, let them Boyl lightly, and strain

strain them through an Hypocras bag twice or thrice. At length put it into Porrengers, or other Vessels, in which it will become a Jelly. If the tast of Saffron or Cinnamon be displeasing, or you desire to have your Jelly more cooling, add instead thereof the Juice of a Lemmon, or of one Citron.

Restorative Broths may be made divers ways; this is far the best of all, which follows:

Take a well-fleshed Capon; pull, draw, and cut him in pieces, and take away the Fat and Skin: add, if you please, some Veal, or Weather-Mutton cut into bits, and freed from the Fat and Skin: put them into a stone Vessel well glazed; in which, about the middle, there must be a grate of Wood, or other materials; on which the pieces aforesaid must be so layed, that they may not come at the bottom. Then cover the Pipkin with its cover, and close it up well with paste, and let it stand boyling in Balneo Mariæ five hours. There will drop into the bottom a clear transparent liquor; of which three or four Spoonfuls may be given in Broth, or by it self, three or four times in a day.

Such distillations of Flesh by Descent are very convenient for Heetical Persons; but those that are made by Ascent, although they refresh the Spirits, yet do they very little nourish; nether do they restore the solid substance of the Body.

Let the Patients drink be Barley-water, either by it self, or with Syrup of Vinegar, or Pomegranates mingled therewith, or Water in which a piece of Bread hath been boyled, sweetned with a little Sugar. But if the Patients stomach be very weak, Wine well allaied with water may be allowed, which helps the concoction and distribution of Nourishments. Galen, Meth. 10. ch. 5. 6. gives cold Water, with which he boasts he had saved many from the *Marasmus*. Howbeit, great Caution is to be used in the giving thereof; for when the Body is very much pined away, it is to be feared lest the small heat of the Patient should be wholly extinguished. And therefore it is only good when an Heetick is feared, or in the beginning thereof, and to such as are accustomed thereunto, and while the Body is yet sufficiently full of Blood.

Motion of the body is not good, but the Patient must be enjoined to rest; howbeit before Meat, if strength will bear it, some light exercise will be good; or instead thereof, a few light frictions or rubbings may serve turn, especially presently after sleep, beginning at the inferior parts of the Body; for they provoke the Humors outward. And the Patient must be rubbed no longer than till a light redness begin to appear upon the Skin; for to rub longer would dry the Body. Carnal Embracements must be above all things avoided, which do very much consume the substance of the Body.

Let the Patient sleep, neither very long, nor very little. For long sleep encreaseth the heat of the Bowels, by the retiring of the Natural warmth inwards: too short sleep dries the Body more. But there is less inconvenience from the sleeping a little over-largely, than too scantily, because sleep doth exceedingly moisten, which in this Fever is very much to be desired. Let the Patient sleep in a soft bed, and that a Flock-bed, not a Feather-bed, and large enough. Let the Patients Linnen be often changed, which must be sprinkled with Rose-water before they be put on.

If there be a Costiveness, the Belly must be provoked with a Suppository, or a Clyster of Chicken-Broth, with Barley, Mallows, and Violet-leaves boyled in it; adding Cassia, Honey of Roses, Butter, and the Yelks of Eggs.

Finally, The Mind must be preserved in peace and cheerfulness, avoiding vehement perturbations, as Anger, Sadness, Fear.

As for point of Medicaments fit for Heetick persons, they are Internal or External. Among Internal, in the first place purgers must be considered; and because addition is more necessary than detraction in this Disease, Purgers can hardly be convenient, unless a putrid Fever be joyned with the Heetick. Yet if the first Region of the Body seem filled with Excrements, because of Crudities arising from a weak Stomach, Purgation may safely be used with Cassia, Manna, or Syrup of Roses. Nay verily, if strength be not deficient, the Infusion of Rhubarb may be given, with a Decoction of Prunes, Tamarinds, Myrobalans, Bugloss and Violets.

But altering-Medicines may be reduced into the form of Juleps, Broths, and Emulsions, after this manner:

Take Waters of Endive, Lettuce, Sorrel, of each four ounces: Syrup of Violets, Water-lillies, Apples, of each one ounce. Mix all into a Julep for three Doses, to be taken at several times in one day, and to be continued for divers days together. Or,

Take whole Barley one pugil: Leaves of Endive, Cichory, Lettuce, Pimpernel, of each one handful: Flowers of Borrage, Bugloss, Violets, and Water-lillies, of each one pugil; Damask-Prunes three pair: Boyl all to a pint and an half. In the strained Liquor, dissolve simple Syrup of Cichory, and of Water-Lillies, of each two ounces. Make of all a Julep for four Doses.

Of the same Simples with a Chicken or a Pullet, may be made a broth for the same use. Or,

Take Roots of China one dram and an half: Entire Barley two pugils: the four greater cold Seeds, half an ounce. Beat all together, and therewith fill the Belly of a Capon, or young Pullet, and make Broth; to which add Sugar of Roses half an ounce. Let the Patient take of this broth a long time together. It restores flesh, and fattens.

Take

Take ſweet Almonds blanched and infuſed in cold Water, one ounce: the four greater cold Seeds, and of white Poppy ſeeds, of each one dram. Beat all together in a marble mortar, pouring on by little and little a pint of Barly-water. In the ſtrained Liquor diſſolve Sugar-Cakes made with Pearl four ounces; Make hereof an Almond Milk for three Doſes.

If we be minded more powerfully to cool, we muſt add to every Doſe of the Julep or Emulſion, two ſcruples or one dram of *Sal Prunelle*.

In the uſe of Refrigerating things, this is to be obſerved, That we uſe not the more powerful all of a ſudden, or frequently; for they might extinguiſh a weak heat. But it is better to cool by little and little, than ſuddenly. And moiſteners are always ſafer than coolers, becauſe they exerciſe their operations ſlowly.

While the aforeſaid Remedies are uſing, we muſt be careful to ſtrengthen the Bowels, by a convenient Opiate, which may be made after this manner:

Take Conſerve of the flowers of Borrage, Bugloſs, and Violets, of each one ounce: Conſerve of the flowers of Water-lilly half an ounce: Powder of the Eleſtuarium Diamargaritum frigidum four ſcruples: Shavings of Ivory, Bones found in the hearts of Stags, of each half a dram: Pearls prepared, and Coral prepared, of each one ſcruple: three Leaves of Beaten-Gold: with Syrup of Apples, make of all an Eleſtuary.

In extream Conſumption of the Fleſh, nourishing Clyſters are frequently to be injected, of the Broth of a Chicken, or Weathers Head, with Sugar and the Yelks of Eggs. But their Quantity muſt be ſmall; or elſe compreſſing the Guts, they will provoke the expulſive faculty to drive them out.

But among other Medicines moſt convenient for Heſtickal perſons, Milk is a principal one, it being endued with all the qualities which can be deſired in this Diſeaſe, Namely, of cooling and moiſtning; it nourisheth much, and is eaſily diſtributed into all parts of the Body. In the uſe whereof, the ſame Cautions muſt be obſerved, which are ſet down in the Cure of a Conſumption.

Among external Remedies, a Bath of freſh Water is principal, for it powerfully cools and moiſtens, and relaxeth the external parts that they may more readily receive Nouriſhment. Among the Ancients the uſe of Baths was moſt frequent, and there were four parts of the bathing place: In the firſt ſomewhat warm, they put off their Cloaths: In the ſecond there was a bathing Veſſel of hot Water; In the third a bathing Veſſel of cold water: In the fourth the Sweatineſs and Moiſture was dried off. *Galen* in 10. Meth. Chap. 19. doth thus moderate the uſe of theſe parts of the Bath; That the Patients ſhould be brought into the firſt part of the Bath, which was heated with the vapor of the Bath, that the pores of their Bodies might be opened; then being anointed with freſh ſweet Oyl, they were to be plunged in the hot water to moiſten their Bodies; and then they were of a ſudden to be thrown into the cold water, quickly to be taken out again, and to be dried and anointed with Oyl, that the pores being cloſed, the moiſture received from the hot Bath, might be retained. But in aſmuch as the Induſtrious Diligence of the Ancients in the uſe of bathing, is long ſince out of uſe; our Praſtitutioners have likewiſe left this Method of bathing Heſtickal perſons, which they judge unſafe, ſeeing it is to be feared, left by the ſudden receiving of the cold water, the Patients Body ſhould be hurt, and the patient not be able to endure the ſudden ſenſe of contrary qualities. So that our Praſtitutioners do more adviſedly, and more compendiouſly, while they convey the patients into a bath of water moderately hot in the morning, after a ſtool procured by Nature, or by Art, and two or three hours after they have eaten ſome Broth, or Milk, or the Yelks of Eggs; wherein they abide ſo long, till it grow luke-warm of it ſelf, and at laſt cold. For ſeeing *Galen* conceives the uſe of a cold bath after an hot one to be ſo neceſſary, that without it the hot bath doth no good; the uſe of a cold bath is ſupplied, if the Patient ſtay ſo long in the bath till of it ſelf it grow luke-warm, and cold. But this Caution is to be obſerved, That whereas a three-fold quality may be had in the ſame bath, the patient muſt abide in the hot a little while, in the luke-warm longer, in the cold leaſt of all.

And although the Antients were wont to make their baths of ſimple water; yet is it good to make them more moiſtning by boiling therein Emollient and moiſtning Herbs, as Mallows, Marſhmallows, Violet-leaves, &c. or with barley and beaten Almonds, eſpecially in the Summer, becauſe a bath of Decoction of Herbs is ſooner corrupted. After bathing, the ſick is ſoftly to be wiped with hot Cloaths; then to be anointed with Oyl of Violets, ſweet-almonds with freſh Butter; and after ſome time of reſt, let the patient eat ſome broth, or other food.

A Bath of water and Oyl is exceedingly cryed up by *Zacutus Luſitanus*, in the 35. Obſervation of the third Book of wonderful Cures; wherewith he ſays a young woman was Cured, whom a bath of ſimple water and Goats Milk could not help. The reaſon of which great good, he renders to be this; Becauſe a bath made of freſh water, with ſtore of Oyl in it, doth ſoften the diſtended ſtiff parts, doth moiſten the dry withered; and by opening the pores obſtructed, and through dryneſs contracted, it draws the Nouriſhment to the outmoſt and moſt diſtant parts of the body.

When

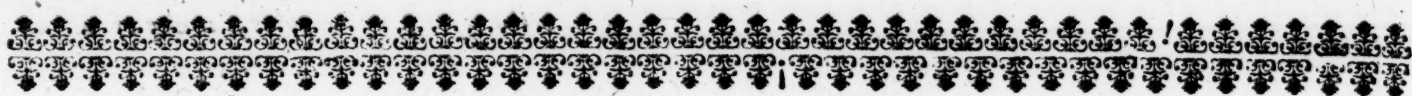
When the Patient cannot use baths, apply an Epithem to the Heart and Liver, in this manner compounded.

Take Waters of Roses, Water-lillies, and Purslain, of each three ounces : Juyce of Pomegranates an ounce : Powder of Diamargaritum frigidum two drams : Bones out of the Stags Heart one scruple, Camphire four grains : Make an Epithem for the Heart.

Take Waters of Endive, Lettuce, Cichory, of each three ounces : Vinegar of Roses one ounce : the three Sanders, of each two scruples. Burnt Ivory one scruple. Make an Epithem to be applied to the Liver.

Also the Region of the Liver may be anointed with Oyntment of Roses, or Ceratum Santalinum. But Oyl and Unguents must be sparingly used, because they may sometimes encrease the Fever.

Among the Symptoms which are wont to come upon this Disease, the chief is a Loosness, which is wont to bring the Patients to their death. This is to be bridled with a Decoction of French-barly roasted, for their ordinary drink, Syrup of Quinces, dried Roses, Chalybeat Milk, Rice boyled in Milk, and such like.



SECT. II.

Of Putrid Fevers.

The PREFACE.

Putrid Fevers are divided into Continual, or Intermitting. The Continual, Putrid Fevers, are generated when a putrid Vapor, or a Preternatural heat, which ariseth from putrified Humors, doth perpetually afflict the Heart, and stirs up therein a continual heat ; from whence likewise is perpetually diffused a Feverish heat into the whole Body. But the intermitting Fevers are caused, when the said Vapors are carried unto the Heart, only at certain distances of time. Continual Fevers are again divided into the Essential, and Primary, or Symptomatical. Those are called Essential and Primary, which spring from a putrefaction inflamed in the common Veins, and not in any particular part of the Body. Those are Symptomatical that arise from the putrefaction or suppuration of some particular part inflamed ; out of which part by communion of the Vessels, a putrid vapor may continually be carried unto the heart : Such Fevers are seen in the Pleurisie, Inflammation of the Lungs, Inflammation of the Liver, and in the Inflammation of other internal parts. Again, the Primary continual Fevers are twofold ; for some are without any Exacerbation or Fits, and remission, but continue a like from the beginning to the end, and are called Synoch, or Continentes. But others have manifest Exacerbations or fits, and remissions, and are called Sunecheis, or Continuæ, by the name of the kind. And these, again from the difference of their Exacerbations or fits and remissions, are divided into three sorts. For some are called continual Tertians, which have their Exacerbations or fits every third day ; others continual Quotidians, that are exasperated every day ; others continual Quartans, that are exasperated every fourth day. The intermitting Fevers or Agues, are likewise divided into Tertians, Quotidians, and Quartans, according as their Fits are wont to return every third, every fourth, or every day. There are other Differences of Fevers likewise, which are either Accidental, or arise from the Composition of those aforesaid ; all which we shall particularly and briefly Explain.

Chap. I. Of continual Putrid Fevers.

Although there are divers sorts of a continual putrid Fever, yet have I determined to describe the Cure of them all together, because in a manner the same Remedies are suitable to all, of which some differ only in more or less, and are accordingly to be varied : which depends more upon the Judgement of a Physitian, and his Dexterity attained by Practice, than upon particular Precepts. Yet shall I as near as I can, observe what is peculiar to every sort of Fever, in its peculiar place.

DIFFERENCE, and CAUSES.

Fevers Putrid, Continual, and Primary, or Essential, are wont to be bred of the putrefaction of Humors, which are contained in the Veins and greater Arteries : And according to the various Nature of putrefying Humors, several Species do arise.

Synochus Putrida is distinguished with no fits or exacerbations, but its whole time is taken up as it were with one fit, which reaches from the beginning to the end of the Disease; and of this, as of a simple Fever there are made three differences, The first whereof is, that which continues all alike, during from the beginning to the end. The second is, that which encreases by degrees. The third is, that which decreases by little and little. The first is named *Acmaestica* or *Homotonos*, and happens when the whole course of the Disease, the manner of putrefaction is one and the same. The second is called *Epacmaestica*, when more putrifies than is dissipated. The third is called *Paracmaestica*, when less putrifies than is dissipated: Yet although these kind of Fevers do perpetually increase or decrease, or keep the same tenor: yet doth not this hinder, but that they have four times, if they determinate in health; but some have them longer, others shorter, if they be considered according to the vehemency of the Symptoms. So that which is called *Homotonos*, hath a very brief beginning and augmentation, but a long state. The *Epacmaestick* hath a long augment; the *Paracmaestick* a long declination, but the other times do quickly pass away. Yet we must know, that the times of putrid Fevers are two ways considered; either with respect to the Symptoms, or with respect of coction & crudity, which two in other Fevers do commonly coincide and happen at one and the same time: But in these continent Fevers called *Synochoi*, it is not so. For their times ought not so much to be defined by the increase and decrease of the Symptoms, as by the signs of Concoction or non concoction, which appear chiefly in the Urines.

Now *Galen* propounds two sorts of this continent Fever, called *Synochus*: one springing from Blood putrifying, of which he treats in the second of his Method, Chap. 6. and 9. as also in the 9. of his Method, Chap. 3. and 5. another arising of Choler putrifying in the greater Vessels of the kind of burning Fevers, which he explains in his second of the Differences of Fevers, and the second of *Crises*, Chap. 6. The first is called *Synochus Sanguinea*; and the other *Synochus Biliosa*. For although the whole Mass of Humors contained in the Veins do go under the name of Blood, yet do we acknowledge four parts thereof, which the more temperate is specially called Blood; the hotter part, Choler; the rawer and colder, Flegm; and the thicker and more dreggy Melancholy. So then, if that more temperate part, which is more especially called Blood, do surmount the rest in quantity, and the whole mass putrifie, that Fever is caused which we term *Synochus Sanguinea*. But if the thinner and hotter part of the Blood, which is of the Nature of yellow Choler, do exceed the rest, and putrifie, that Fever is caused, which we term *Synochus Biliosa*.

Synochus Putrida is ingendred by the same causes which are wont to produce the simple *Synochus*. And so not only the shutting the pores of the Skin, but the Obstruction of the Vessels also, by reason of much Blood, and thick and clammy Humors, is wont to cause this Fever. For seeing by such like Obstructions, the Transpiration of Fuliginous Vapors is hindered, putrefaction is bred in the Blood redounding within the Veins.

A continual Tertian, which every third day doth more afflict the Patient than ordinary, takes its rise from bad and Cholerick blood putrifying in the *Vena Cava*. And the causes thereof are all such things as multiply this Humor in the Body, as an hot and dry distemper of the Liver, Meat hot and dry, Youthful Age, Fasting, or very spare Diet; vehement and frequent exercise, hot and dry constitution of the Air, over-great Watchings, and such like.

A continual Quotidian (which the Barbarous Writers term *Latica* or lurking, because it hath a certain hidden and concealed heat) is produced by flegmatick blood putrifying within the Veins; and therefore it hath its exacerbations and fits every day. It is wont to assail flegmatick bodies, as of Infants, and Children, and old Men; as also of such as are of a fat and corpulent constitution, given to idleness and cramming of Belly-cheer, and inhabiting moist places. This kind of Fever happens but seldom, because flegm is hardly putrified.

A continual Quartan, is that which is exasperated every fourth day, being caused of Melancholy, blood putrifying in the blanches of *Vena Cava*. And all things may cause this Fever, which are apt to breed Melancholy blood, and to cause the same to putrifie. Howbeit this kind of Fever is most rarely observed.

The accidental differences of Fevers are taken from their evil Symtoms, which are wont to be complicated with the Essential, and from them they are named. Among these are wont to be reckoned *Febris Ardens*, that is, the burning Fever; *Colliquans*, the *Melter* or dissolving Fever; the shivering Fever *Horrida*; *Assodes* the tumbling, tossing, and vomiting Fever; *Eldoes* the sweating Fever, *Syncopalis* the swooning Fever; *Epiala* the Fever which makes the Patient hot and cold at one and the same time.

Causes of Febris Ardens, the burning Fever is properly that which is perpetually accompanied with these two Symptoms, viz. an ardent burning heat, and an unquenchable thirst, though the Patient drink never so much. *Galen* 3. Epidem. Com. 3. Text 34. It is divided by the same *Galen* in Com. 4. de Vict. Rat. in curis, Text 13. into a Legitimate or Bastard burning Fever. The Legitimate or exquisite burning Fever, is that which hath the two Symptoms,

aforesaid, always and evidently conjoyned therewith. The Bastard, in which those Symptoms are less vehement, the thirst less urgent, and the Body not so burning. The Legitimate is caused by a Cholerick Humor putrefying within the large Vessels near the heart; the Bastard is caused by Choler mingled with Flegm, or Salt Flegm putrefying in the Vessels aforesaid. Whence it appears, that a Legitimate Burning Fever is no other but a continual Tertian Fever, whose Matter is more sharp and plentiful than ordinary, and contained in the larger Vessels which are near the Heart; whereas the Matter causing a simple continual Tertian, is in Vessels remoter from the heart. Again there are two sorts of an exquisite Burning Fever, the one from the beginning to the end hath one only accession or fit, which we before named *Synochus Biliosa*, and it is likewise called *Synochus Ardens*; which is caused, when the Humor putrefying, doth occupy all the Vessels which are most near the Heart: the other is named *Ardens Periodica*, and contains in it self divers fits or accessions; it is caused by the same Choler contained in the Vessels near the heart, but not in all, or not so near as in *Synochus Ardens*. So that a continual Tertian, *Synochus Ardens*, and *Ardens Periodica*, do differ one from another, only as the Choler causing them is more or less sharp, plentiful, and near the Heart.

Febris Colliquans; the Melting Fever is of the kind of Burning Fevers, which in regard of the exceeding heat, doth suddenly melt the fat Flesh and substance of the solid parts, and sometimes the Blood contained in the Veins, and dissolve the same by insensible Transpiration, Sweats, Urines, or Stools. It is wont to be caused by a thin, sharp, and cholerick matter, which is vehemently inflamed; and *Galen* teaches, that oftentimes there is adjoyned thereunto a malignant and pestelential quality, Comment. in 3 *Epid. Sect. 3 Sent 57*.

Horrida Febris, in Greek *Phricodes*, is that Fever in which the Patient doth often undergo shaking-fits; it is caused by a mingled matter, viz. partly Cholerick, and partly Flegmatick or wheyish, which being unequally moved, is wont to excite those Horrors or Shakings; either because the thin, sharp and wheyish matter doth twitch and nip as it were the sensible and membranous parts, or the inflamed Choler doth putrefie and put in motion the crude humors; or because nature doth in vain seek to shake off the crude undigested humor, whereupon the heat being driven back to the Centre, the extreme parts of the Body are cold; and afterwards, when the same blazes out again, they grow hot.

Assodes Febris, the Fever so called, is a kind of Burning Fever, in which the sick do tumble and toss, and are exceeding unquiet, much oppressed with the Disease, being for the most part subject to Stomach-sicknesses and vomiting, because it is wont to arise from the vexation of the Stomach by sharp and Cholerick Humors, biting the Orifice or Coats thereof.

The Fever *Eldoes*, is that in which the Patient perpetually Sweats; and it is caused by a mighty Putrefaction or Malignity of Humors, dissolving the substance of the Body.

The Fever *Syncopalis*, is that in which the Patient often Swoons and Faints away. *Avicenna* makes two sorts thereof, one of thin, sharp and venomous Choler: another of much Flegm, or abundance of crude Humors. The former is called *Syncopalis Minuta*, because it arises from a little quantity of Humor, but thin and malignant. The latter *Avicenna* doth call *Syncopalis Humorosa*, vel *Repletionalis*, because of the great quantity of crude and flegmatick Humors abounding therein; and there is also joyned a weakness of the mouth of the stomach, by which means especially the sick persons come to swoon so often.

That Fever is by *Galen* termed *Epiala*. 2. de diff. Feb. cap. 2. & Lib. de inaequali intemperie, cap. 8. in which at the same time through the whole Body in the smallest particles thereof, there is felt both cold and heat. For albeit one and the same part cannot be the subject of contrary qualities; yet is that which hath been said of this Fever to be understood of the smallest particles in respect of sense, but not indeed and in truth. *Galen* shews, that this Fever is caused two ways; the one is by means of Glassy Flegm mingled with bitter Choler, & so diffused into the whole body. For Choler causes a sense of heat, and the Flegm a sense of cold: The other is by means of Glassy Flegm alone, but partly putrefied, and partly void of putrefaction. For inasmuch as Glassy Flegm is extreme cold and clammy, it doth not readily putrefie, nor all at once, but only by piecemeal: so that one portion thereof being putrefied, the other remains unputrefied. That part of the said flegm thereof which is not putrefied, being shed among the sensitive parts, causes a sense of cold, by reason of the extreme coldness thereof; and that which is putrefied causes a sense of heat. And so the whole body at one and the same time feels both cold and heat. *Platerus* also hath invented a way how this Fever may be bred, viz. when intermitting Fevers or Agues do one fall upon the neck of another the same day in the same Patient, so that the cold fit of the latter Ague begins ere the hot fit of the former be ended; or else when intermitting Fevers coincide with those which are continual, so that the heat of the continual Fever, and the cold of the intermitting, happen at one and the same time.

There are likewise other accidental differences of continual Fevers, which because they are wont to

to be reckoned among the Symptomack Fevers, they shall be discussed forthwith in the description of the said Symptomack Fevers.

Now although the Cure of Symptomack Fevers depend upon the Cure of those diseases in particular from whence they arise, yet must we declare their nature, lest they come to be confounded with Essential or Primary Fevers.

Those therefore are called Symptomack Fevers, which arise from the inflammation and putrefaction of humors contained in some of the bowels; of which kind are those Fevers which accompany the Pleurisie, Inflammation of the Lungs, Frenzy, Quinzy, Inflammation of the Liver, and other Inflammations, Ulcers, or Imposthumes of the internal parts.

And it is diligently to be observed, as a thing of great moment in practice, and by few taken notice of, that all Fevers perpetually which are joined with inflammations of the parts of the body, are not symptomack; but that some of them are essential, and the foresaid inflammations do follow upon them. For it often falls out, that blood corrupted or filled with evil humors, after it hath raised a Fever, comes to be agitated by Nature, and as hurtful to her, is expelled to the weaker parts, or to such as are most convenient to receive them; whereupon an inflammation is caused in those parts, which doth not cause the Fever, but is rather a consequent thereof. So we may often see in the course of our practice, the Patients sick of a continual Fever for a day or two, before pain in the side, and other signs of a Pleurisie appears. So many on the third or fourth day fall into a Phrenzy. So all gouty persons in a manner, before they are troubled with pain, swelling, and inflammation of their joints, are wont to have a continual fever for a day or two. So they which have the Rose of S. Anthony's fire, have a fever sometime before the swelling break forth. The same thing appears by the Urine, which in such Inflammations as these, do shew manifest signs of putrefaction in the veins; for in the beginning they appear crude and undigested, & in the progress they shew tokens of concoction daily encreasing; also blood is often taken away very corrupt; which things would not happen, if such Fevers were only symptomack, simply depending upon those Inflammations.

And these Fevers, whether they be symptomack or primary, and attended by Inflammations of the parts, have their accidental differences. For if the Inflammation be of blood, the Fever is called *Phlegmonodes*; if it be of Choler, *Typhodes*. And peculiarly, an *Erysipelas* or Cholerick Inflammation of the Stomack and Guts, brings the Fever called *Lypiria*, in which the outward parts are very cold, and the inward parts burn. For the inward burning doth draw the blood and spirits to the part inflamed, whereby the heat is so encreased, that the inward parts seem to be burned with unquenchable thirst, but the outward are cold, being destitute of heat and spirit.

Lenta Febris, the slow or lingering Fever, is wont also to be reckoned amongst Symptomack Fevers, which arise from some hidden obstruction and putrefaction, sticking so close to some bowel, and so impacted, that the substance of the bowel is for the most part vitiated. And when a portion of the putrid humour is shed into the veins, and mixed with the blood, it stirs up a slow Fever, and so mild, that it troubles the patient with no grievous symptom, yea, and the patient is scarce sensible of any Fever. Yet some notes of putrefaction appear in the pulse and urine. And sometimes this *Febris Lenta* is bred of the putrefaction and corruption of some of the bowels, because by the veins inserted into that bowel, putrid and hot vapours do breathe unto the heart. Such a kind of Fever is often bred in the Consumption of the Lungs, which degenerates into an HeCtick. It is also sometimes caused, when the substance of the Liver or Spleen corrupts, or when putrefaction settles upon the Mesentery, the Caul, or the Pancrea, or other parts; or also sometimes when the Child or After-birth are corrupted in the womb. And hence not only slow Fevers, but sometimes also acute ones do arise, according to the different nature of putrefactions. And finally, to this kind of slow Fevers, those are to be referred which are found in Cachectical persons, and in Maids which have the Greensickness, which *Fernelius* conceives do arise from a light putrefaction of wheyish flegm shed abroad in the body.

Besides these forenamed differences of continual Fevers, which are most frequent, and are commonly set down by Authors, there are also some other arising from peculiar and extraordinary causes, which sometimes we meet with in our practice. The case of a certain Infant may serve for example, propounded by *Zechius* in his 46 Counsel: The Infant was scarce two years old, and had a continual Fever, with most grievous symptoms, *viz.* Unquietness, Convulsions, and continual stomach-sickness inclining to vomit; and it was conjectured, that there was some malignity adjoined, because such grievous symptoms did not answer to that Fever. For all the external parts were cold, though the inner parts were burned with heat, as appeared by the heat about the breast, and under the short ribs, and also the dryness and blackness of the tongue. The Cause of which was blood putrefying contained in the stomach: For this Infant being tongue-tied, was lately cut by a Chyrurgeon, in which work some veins or other were opened, which shed some blood into the stomach, which putrefying there, by sending forth hot, putrid, and as it were poisonous Vapours into the Heart and Brain, was the cause of all the symptoms aforefrid. But how

this cause was found out and removed, it is worth the while here to recite out of the story of Zechinus: So often (quoth he) as I diligently consider with my self, how hard a thing it is to understand internal diseases, and their causes; I come easily to be of the mind, That Hypocrates in his second Book of *Vulgar Diseases*, Sect. 4. did not without greatest premeditation leave in writing, That in the Curing of all hidden Diseases, the Physician must diligently enquire the first assaults of the Disease; that is to say, the first occasion of the Patients illness; for of that for the most part depends the knowledge both of the Cause and Cure. See an example hereof; This Disease of the Gentlemans Child was very acute, and the Cause very hard to find, had not I diligently asked of the Parents touching the conditions of the Child and the Nurse; who told me, that two days before its being first ill, a certain Chyrurgeon had cut the Membrane, whereby the Tongue of it was fastned to the parts beneath it: And when I again asked them, if presently after this was done, they had caused the Child to be held forward, or if any blood had come out of its mouth; they said no, it was neither so held, neither came any blood from the mouth of it. Whereupon I presently conjectured, that blood was fallen from the place into the stomach, and there putrified, and was the cause of the disease, and the symptoms aforesaid. Neither did my opinion deceive me; for I have given it Oyl of Sweet-Almonds to make it vomit, it uttered a considerable quantity of clotted blood and matterish. Also it voided with a Clyster many clodders of blood. And presently, by the blessing of God Almighty, the Fever was abated, and all symptoms began to cease. Whereupon it fell greedily and lustily on sucking its Nurse, and all the following night it slept quietly, and was afterward perfectly well.

DIAGNOSTICK. The Diagnostick Signs of putrid continual Fevers, do some of them shew the continuity, others the putrefaction, and the rest the peculiar differences of them.

The continuity is easily known, in that the Fever is continual, and hath no intermission.

The putrefaction is signified by a sharper heat than ordinary, and more biting, and by a sharp and biting foety vapor, produced by the exhalation of putrid humors. The pulse is not only great and frequent, and oftentimes unequal; but it hath this peculiar property, that the *Systole* is quicker than the *Dyaftole*; because the expulsion of foety excrements is more necessary than refrigeration. The urines are in the beginning crude, or very little digested: The exacerbations or fits keep their certain times, which yet is not to be understood of the Fever *Synochus*. A cold shaking-fit at the beginning of the disease: hereunto are added various symptoms, commonly accompanying putrid Fevers, as illness of stomach, vomiting, heaviness of the body, pain of the head, raving, giddiness of the head, hiccoughs, anxiety, heart-burning, thirst, roughness and blackness of the tongue, stretching of the parts under the short ribs, and the rest. Before which preceded weariness without labour, purliness, troubled sleeps, watchings, tension of the parts under the short ribs, difficult breathing, pain and pulsation of the head, stomach-sickness, want of appetite, plenty of stinking excrements, frequent yawning and retchings, or some of these.

But the peculiar differences of continual putrid Fevers, may be discerned by these signs following.

A continual putrid Fever, called *Synochus putrida*, hath the same signs which were propounded in *Synocha Symplici*, but more vehement, for the heat is more sharp, the watchings, head-ach, thirst, disquiet, and other symptoms, are more vehement; also the pulse is unequal, so that the *Systole* appears greater than the *Dyaftole*, the Urines are crude, red, and thick.

The signs of a Fever from Choler, are burning pain, a pulse mighty frequent and swift, a sharp Urine, fiery, in the beginning always crude, without Sediment; Stomach-sickness, Cholerick vomitings, and Stools Cholerick, much Anxiety, mighty thirst, bitterness of the mouth, dryness and blackness of the Tongue, Watching, Raving, and an ulcerous kind of weariness foregoing, paleness of face, or a citrine colour, youthful age, temperate hot and dry, Summer-season, hot and dry diet, cholerick evacuations suppressed. And a continual Tertian is distinguished from a *Synochus Biliosa*, or continent Fever springing of Choler, because it hath exacerbations or fits every third day, but the *Synochus Biliosa* keeps still one and the same tenor.

The signs of a continual Quotidian are, Heat at first rather vaporous than biting, afterwards somewhat sharp, but unequal, because of the thickness of the humor, which is difficultly dissolved, the Urines are at first white, watry, troubled; afterward somewhat red and thick; the Pulse is seldomer, slower, and less than in the rest of these Fevers, thirst little or none, seldom sweat, unless there be salt flegm; the face of the Patient is somewhat bloat or blown up, lax, flaggy, and as it were lead-coloured; drowsiness, want of appetite, flegmatick excretions, a cold and moist temperament, old age, winter-season, cold and moist diet, evacuations suppressed, and a daily excretion of the Disease.

A continual Quartan is known by these signs: The heat is less sharp than in Fevers of Choler, yet sharper than in Fevers of flegm; likewise Thirst greater than in a Quotidian, and lesser than in a Tertian; a Pulse in the beginning slow, rare, languishing; afterwards stronger, frequenter, and very

very unequal. The Urine in the beginning thin, afterwards various; the body dry and lean, of a rawny or swarthy colour. Temperament cold and dry, Age inclining, Autum of the year, or very changeable weather; a life intangled with many cares and studies, suppressions of the Hemorrhoids, swelling of the spleen, and exacerbation, or vehemency more than ordinary of the Fever every fourth day.

The signs of a *Causus* or burning-Fever proper to that Disease, were propounded before, viz. a burning heat of the body, and an unquenchable thirst. Yet it is to be marked, if any Cough arise, that the Patients thirst is thereby diminished, viz. by such moisture as is drawn by the Cough out of the adjacent parts; howbeit, the Cough is never wholly taken away while the Fever lasts. The other signs are all such as we have before shewed, and do signify a Fever from Cholera. Yet the signs which signify a bastard or burning-fever, are much more remiss than the aforesaid.

A Melting-Fever is known by a sudden Consumption of the body, and growing lean; the eyes are hollow, the temples are fallen, nose sharp, stools red, fat, stinking, clammy, corpulent, sincere, cholerick and frothy; the urines fat and oily.

The Shivering-Fever, and the Tumbling and Tossing-Fevers, are to be known by what is said of them in their descriptions.

In the Fever called *Eloder*, the skin is ever moist, with a clammy moisture, and the heat, to feel to, is not very sharp. Malignity is distinguished from the largeness of putrefaction, because in case of malignity, the Urines are in a manner natural, or appear not much different from the natural; or somewhat swims in the Urines like a Spiders web, when the fat melts; or if with the Urine there comes away somewhat like Vetches or Barley, which signify a melting of the flesh; or finally, abundance of urine coming divers days together, when the blood and humors are melted. Add hereunto an extreme decay of strength, a small contracted pulse, not very frequent. In great putrefaction the urines are thick and troubled, the Pulse great, soft and frequent.

Syncoptic Febris, viz. the Swooning-Fever is known by fainting-fits, and swoonings frequently befalling the sick. And that sort called *Minuta*, is distinguished from that called *Humerosa*, because in the former are seen the signs of a Cholerick, in the latter of a Flegmatick Fever, as they were lately set down.

The Fever *Epiola* is known only hereby, That at the same time heat and cold is felt in the whole body.

Finally, Symptomack Fevers, and such as are called *Comitatae*, are known by what hath been said of them in their Histories or Descriptions.

PROGNOSTICK. Now in every of these sorts of continual putrid Fevers, the Prognostick signs are to be described, by which their events may be presaged.

And first, for *Synochus Putrida*, seeing it is of the kind of acute Fevers, it is not without danger. Yet if signs of Concoction do evidently appear upon the fourth day, and no error be committed, it will terminate towards health the seventh day. But if the signs of Concoction appear later, it may reach unto the eleventh or fourteenth day; but if no signs of concoction appear, and the sick have a round swollen face like a globe, it signifies the disease will be long. By how much the urine is redder at the beginning, other signs corresponding, by so much safer it is, and signifies the disease will soon come to an end, if there appear therein signs of Concoction; but with signs of crudity it threatens death, especially if the party be weak: White Urine is the worst of all, and commonly portends death. Among the differences of *Synochus*, *Paracmastica* is more secure, *Acmaistica* more dangerous, *Epacmaistica* most dangerous of all. Furthermore, an exquisite *Synochus*, and being rightly cured, is safe; a Bastard, one that hath malignity in it, with cruel symptoms and strength decayed, is dangerous.

Cholerick Fevers, inasmuch as they are acute, are also dangerous; and that more or less, according to the more or less distemper, vehemence of the Symptoms, and validity of the Patients strength. The distemper is measured not only absolutely by the degree of heat it self; but also comparatively, with reference to the natural constitution of the sick party; so that look how much the heat is encreased above the natural temper of the Patient, so much the greater is the danger. So a Burning-Fever in an old man, or in Winter, is for the most part deadly. The vehemency of symptoms is considered in actions Animal, Vital, and Natural; in Excrements, qualities changed, and proper adjuncts; whose enumeration requires a work by it self, according as we have expounded them in the third Section of our *Semiotica*, or Doctrine of Signs, out of *Hypocrates* his Aphorisms, Prognosticks, Predictions, and his *Coic Praenotions*, which may easily be transferred to this place. And finally, the strength of the Patient must be compared with the vehemency of the Symptoms: for if the strength be lusty, and likely to hold out against the Cruelty of the Adversaries, there is good hope; if not, we may justly fear the Patients death.

A continual *Quotidian* is wont to be long, by reason of the thickness & contumacy of the humor: but if divers evacuations happen in its course, it is wont to be the shorter. We must measure the danger

danger thereof, by comparing the vehemence of the symptoms with the Patients strength. And the chief care ought to be, lest it degenerate into a Cachexy or Dropic, by reason of the Obstructions of the Liver and Spleen, which happen in these long Fevers.

A Primary continual Quartan is most rare, yet sometimes an intermitting Fever or Ague degenerates thereinto, and then for the most part deadly.

The melting, shaking, tumbling, sweating and swooning-fevers, seeing they borrow their names from such bad symptoms as they are attended with, they are in regard of such symptoms extremely dangerous, and for the most part deadly.

Finally, The Prognostick or Symptomatick Fever is to be gathered from the excellency of the parts affected, vehemence of the symptoms, and validity of the Patients strength.

CURE] Now in the Cure of all Putrid Fevers, we must take our Hints or Indications from the Fever, from its cause, and from the Patients strength. The two former indicate their own ablation, or removal; the third, its own preservation. Which must be done by assistance of those ordinary Medicinal Utensils, viz. Diet, Manual operation, and Medicaments.

The Diet in all Cholerick Fevers ought to be cooling and moistening, in flegmatick and melancholick more warming and attenuating. Let therefore the air be cold and moist, which being drawn in by the lungs unto the heart, doth exceedingly temper the burning heat thereof. Yet must not the Patient be laid bare to the cold air, because transpiration, which is exceeding needful, would by that means be hindered, and the sooty vapours and sweats would be driven back again into the body. Howbeit the sick must be covered only with light and soft coverings, and not loaded with over-many blankets or rugs; also the Feather-bed must be taken away, and a Flock-bed put in place, upon which also in the extremity of Summer a covering of Leather will conveniently be laid on. Let the bed be wide, that the sick may change place therein. Let the Patients Linnen shifts be often changed, contrary to the vulgar opinion, provided they be not newly washed, nor smell of soap, and that the time of the Crisis be not at hand, in which nothing is to be stirred, lest the motion of Nature be hindered and disturbed. The Sun-beams are to be kept out of the Patients Chamber, and store of company is to be avoided. Water is often to be poured out of one vessel into another in the sick persons chamber; the pavement of the chamber is to be sprinkled with water, vinegar, and rose-water mingled; or with cooling herbs and flowers, as vine-leaves, willow-leaves, leaves of water-lillies, flags, roses, and flowers of violets, and of water-lillies, which must be kept at hand in good quantities in a cool place, and be often fresh sprinkled and strowed about the Patients chamber; for when these herbs and flowers are dried, they heat the chamber. If the chamber be cold, as in the winter, it must be a little tempered with a fire, avoiding smoak: Howbeit in flegmatick Fevers, the air must be moderately hot and dry.

As for point of Nourishment, the diet ought to be thin and spare in acute fevers. And therein the Ancients were so severely diligent, as to place the greatest part of the Cure in ordering the diet; enjoining such as were sick of a most acute Fever, to keep a most thin and slender diet; and giving them nothing but a Ptisan-drink of Barley-water. as most convenient for persons in a Fever, seeing it cools and moistens, withal extenuating and opening, and hindering no evacuation. And they had two kind of Ptisans; one simple so called, or whole Ptisan not strained; the other was strained; which we call Barley-Cream. Barley cleansed of the husks, boiled in fair water to a consistency or pottage, is the whole Ptisan; this being strained with pressing, is called Cream or Juyce of Barley.

But in our times, at least our Countrey, by the refractoriness of women (who fear nothing but that the sick person shall be starved, as all their care in a manner is to cram their children with meat like Pudding-bags, how empty their brains of wit, or their hearts of grace and wisdom, matters not) and the Indulgence of Physicians (who the best of them smell too strong of the Mountebank) it is grown into a fashion in all Fevers, yea the most acute and violent, to allow the sick at all times broths of the flesh of Hens, Chickens, Capons, Mutton; and that for the most part they give every third, or at most every fourth hour. And in the Summer the flesh of a Puller, Kid, or Lamb, is added to the former Diet. And sometimes again Broths are made of nothing but a Chick with cooling herbs, as Lettuce, Endive, Sorrel and Purslain. Or to ordinary Broths, is added Juyce of Oranges, Lemons, or Pomegranates, when the heat of the Fever is very great, or the putrefaction very intense.

Moreover in Fevers not so very acute, Panadaes are given twice or thrice in a day made of washed bread and broth. Also Barley-broths are sometimes used of the Ptisan of the Ancients being strained, with the broth of the flesh aforesaid, and Sugar; or without broth, adding Sweet-Almonds. But these for the most part do oppress the stomach, and therefore the use of simple Broths and Panadaes seems more convenient. Howbeit very profitable it is to boyl a little Barley with flesh, and thereof to make Broths.

In long Fevers, a fuller Diet is fitting, of the flesh of Chickens, Veal, Hens and Pullers; Capons, Partridges, Mutton, or of the Juyce pressed out of them, Jellies made with them, and such like.

Concerning the time of giving the Patients meat, this is principally to be observed, that they never eat in the time of Exacerbation or Fit, but in the time of the abatement of the Fever. But if the Exacerbation be very long, let the Patient eat in the declination thereof.

For drink, the Ptisan of the latter Physitians, made of the Decoction of Barley with Liguoris, is usually given in all Fevers. To which, if the Fevers be very burning, may be added a little Lettuce, Sorrel, Tamarinds, but more ordinarily are added the Roots of Grass or Sorrel, which makes the water look of an Elegant Colour like Wine; but in long Fevers may be added sweet Fennel-Roots, Parsly-roots, Annis-feed, Coriander-feed, or Cinnamon, as oft as the stomach through weakness is offended with drinking.

Take of the ordinary Ptisan-drink of Barley and Liguoris two pints, Spirit of Sulphur as much as shall suffice for to make it pleasantly tart. Harts-horn burnt till it be white, one ounce: Let the Patient use it for ordinary drink, shaking the Vessel before it be poured forth.

Also water that hath had a piece of Bread boyled in it either by it self; or sweetned with Sugar, is good; or mingled with a little Vinegar, or water alone boyled to take away the Crudity, where-with sometimes a little Sugar is mixed; and sometimes a little of the Juyce of Lemons, Pomegranates, Barberries, Cherries, or of their Syrups; or as much spirit of Sulphur or Vitriol as may serve for a grateful Acidity; or a little *Sal Prunella*, if need be, of potent refrigeration.

Water is commended, wherein are steeped Tamarinds, Barberries or Prunes.

A Decoction of French Prunes is very pleasing to the tast.

Or Barly is boyled with Tamarinds; and towards the end, the Broth is aromatized with yellow Sanders and Cinnamon. Which drink doth not only quench Thirst, but loosens the Belly, and cools and strengthens the Liver.

Take Sugar eight ounces, Sal Prunellæ one ounce: Make it into a Powder to be taken with the Patients ordinary drink. Whereunto if thirst be extreme, the spirit of Vitriol may be added.

Touching spirit of Vitriol and of Sulphur, this is diligently to be observed, that in putrid Fevers the use thereof is great, because they have a mighty cooling, opening & putrefaction-quelling-faculty; prohibit the Inflammation of the humors, and quench thirst. Howbeit in the Pleurisie, Inflammation of the Lungs, Spitting of Blood, Consumption of the Lungs, and other Diseases thereof (unless they spring from thick flegm, stopping the Vessels thereof) Inflammation of the Stomach, Dysentery or Blood-flux, Pissing of Blood, Ulcers of the Kidneys and Bladder, they do very much hurt, and therefore we must abstain from them.

In Fevers arising from very thin and hot Choler, or joyned with a sharp thin distillation, sharp things are not convenient; but rather such as gently thicken, as Syrup of Violets, of dried red Roses with Barly-water, or Bread-boyled-water, or simple water boyled, or small Beer mixed therewith.

Where thick and clammy Humors abound, the Syrup of Vinegar will be very profitable instead of those last named.

Also sometimes Conserve of Roses, Violets, or Borrage, is wont to be mingled with clear water boyled with Barley-water, and to be strained through an Hypocras Bag for ordinary Drink, unto which some drops of Spirit of Vitriol may profitably be added. Or a Tincture of Roses is made after this manner, most delightful in colour and in tast.

Take red Roses one ounce, bloodwarm Water three pints, Spirit of Sulphur or Vitriol one dram and an half; Let them stand infusing cold for three or four hours. To the straining add white Sugar four ounces, Rose-water half a pint: Make thereof a clear Julep for ordinary Drink.

Also *Julepus Alexandrinus* is very good, and extreme pleasant. It is thus made:

Take Fountain-water one pint, Rose-water, Juyce of Lemons and white Sugar, of each four ounces; boyl them over a light fire till you have taken away the scum.

As for other things pertaining to Diet, Sleep is extreme good, and watchings bad. Yet over-much Sleep doth over-whelm the natural heat, and hinder the Evacuation of Excrements. Rest is necessary in acute Fevers; but in long Fevers, light and gentle exercise is good. Also we must endeavour that nothing be retained which ought naturally to be expelled; howbeit all immoderate Evacuations which exhaust the strength, are to be stopped, and all vehement perturbations of mind must be turned out of doors.

Among manual Operations, Blood-letting holds the chieftest place; for it doth not only diminish plenitude, whether it be a simple fulness so as to stretch the Vessels; or only a fulness with reference to the strength of the Patient; whether it be in the whole Body, or in some part; but also reveals the influx of Humors, causing Obstructions, cools the whole Body, and makes it perspirable, keeps back putrefaction, and furthers the concoction of putrefying Humors. Presently therefore, and at the beginning

beginning of the Disease, blood must be drawn (unless weakness hinder, as in the swooning Fever, and other like Cases) and that after the Belly hath been loosned with a Clyster or a Suppository: How much blood should be taken, is gathered from the Patients strength, from the greatness of the Plethory Custom of the Patient to bleed or not to bleed, and other Circumstances. The Ancients in the *Synochus Putrida*, and the burning Fever, did let blood till the Patient fainted away. But it is much more safe (as we have said in the Cure of a simple Synochus) to take away at several times so much as shall be sufficient, than suddenly to put the Patient in danger of death. *Avicenna* in a burning Fever, and in a continual Tertian, doth forbid letting blood, unless the Urine be thick and red. For he fears lest Choler should be more inflamed, which he saith is bridled by Blood. But the wiser Physicians do explode this Opinion of his, seeing these kind of Fevers are often terminated even by Nature her self, by bleeding at the Nose; and they do sometimes cause Frenzies, and other Inflammations: and finally, because Blood-letting doth potently refrigerate, doth rather stop than further the Ebullition, or boyling and working of the Blood, and Choler comes away as well as blood when a Vein is opened; so that in that mass of blood which is in the greater veins remaining, there is the same proportion of blood to Choler which there was before. Nay verily, when a vein is opened; if the sick party be any thing lusty, and the blood flow amain, only the putrid blood which is offensive to Nature is voided, the purer remaining in the Veins, which few Authors have taken notice of, although it be in the course of Practice every where observable: For if the blood flow out of the vein drop by drop, it is the purest blood, because it comes out of the Vein by its own proper motion; but if it spring out with a forceable stream, it appears foul and corrupted, Nature expelling the worser part of the Mass of blood. Howbeit blood is more sparingly to be taken from such as are of a very Cholerick Constitution in the middle of Summers heat and Dog days, than in other Natures and times; but in Flegmatick and Melancholick Fevers, Blood must be taken away in lesser quantity: and moreover, great regard is to be had to Coindicants and Contraindicants; forasmuch as Quotidian Fevers do for the most part happen unto Children, or old Persons in cold Countries, and cold Seasons of the year; which considerations do lessen the quantity of Blood which otherwise the Disease, or its Cause require, should be taken away. When the Fever is caused by over-much labour, blood must be taken away more sparingly: If a Fever happen by over-great use of Carnal Embracements, blood-letting is pernicious.

Concerning the time of blood-letting, it is to be noted, That a Vein must not be opened presently after the Patient hath eaten; but after Digestion is past, and after the Patient hath been at stool. Again, Blood is to be let when the Fever is most remis, and not in the vigor thereof, for then Nature is not able to bear both the violence of the Disease, and the loss of blood. As for the repetition of blood-letting, if the same be necessary to cause Evacuation, it must be repeated the same day: if for revulsions sake, on another day. For where Evacuation is necessary, especially in acute Diseases, the Body must be suddenly changed into another condition; also it oftens happens that a Disease is quickly past its first time or beginning; so afterward we cannot so conveniently open a Vein; but in Revulsion we have respect to the motion of the Humors, which is then best ordered, when it is done at divers times, some space being interposed, whereby Nature becomes accustomed to a contrary motion. For in the space between bleedings, the Blood which was shed into the parts, regurgitates into the Veins, and by another Blood-letting is profitably drawn forth. We understand that Blood-letting must be iterated, if that blood which was first drawn forth were very much corrupted; and there is reason to think, that there is yet a great quantity thereof abiding in the Veins.

Yea verily, although the blood at first seem pure and uncorrupted, yet must we not desist from taking the same away, but continue so doing until it appear more impure and corrupted. And truly that precept delivered by *Hypocrates*, in his 4. *de Victus Ra. in Morbis acutis*, in the Cure of a *Pleurisie*, may very profitably be observed in acute Fevers, viz. That Blood-letting be so long continued, till the blood change colour; so that if at first corrupt blood come away, we must let it run till it appear more pure; and on the other side, if at first the Blood appear laudable, we must suffer it to flow, till that which is impure and corrupted be come away.

Yet is there some diversity to be observed in both Cases; For if at first good blood come away, blood ought to be again taken from the same Vein; that putrid blood residing in the innermost parts of the body, may the sooner be drawn forth. But if at first corrupt blood be taken away, Blood is next time to be taken out of the other Arm, and afterwards out of the former again, and so in course as oft as need shall require.

But if the Symptoms declare, that the Putrefaction is in the inner branch of the *Vena Cava* descendent; as heat and pain in the Loins, redness and thickness of the Urine: after two or three Blood-lettings in the Arms, it will be convenient to draw Blood out of the *Vena Saphena* two or three several times.

If in the latter Blood-lettings, some part of the Blood seem laudable, and not so putrid as before; it's a sign that Nature doth repair and restore new good blood instead of the corrupt blood which hath been taken away. Contrarily, If the more is taken away, the worse it comes, it's a sign the Disease grows worse, and that putrefaction is encreased; whence there is reason to fear a stupefaction of the Internal parts.

The Vein in the binding of the Arm, or the Basilica, or the Mediana, is for the most part to be opened in the right Arm most commonly, sometimes in the left, *viz.* when more distention is felt under the short Ribs on the left, than on the right side. Yet sometimes a Vein is profitably opened in the Foot, if Revulsion be necessary, and the Patient weak, the Matter of the Disease being in the Head, and the sick person molested with Head-ach, and want of rest.

Frictions are seldom used in putrid Fevers, unless it be in the Swooning Fevers; the Cure of which we shall set down in the Cure of the Symptoms of Putrid Fevers, towards the end of the next Chapter.

But Cupping-glasses are more frequently used, as being the Substitutes of Blood-letting, in whose stead they serve, when weakness or Age of the Patient will not permit a Vein to be opened.

Medicinal Remedies are comprehended under a double kind; whereof some are Evacuative, others Alterative. Under the Evacuative, we comprehend Purgatives, Vomitories, Sudorificks and Diureticks. Under the Alterative, we comprehend Coolers, Attenuaters, Cutters, Openers and Strengtheners. Of all which we shall set down the Composition and use in order, according to the usual Method of Practice.

And that we may begin with Purgatives, it's a great Question among Authors, Whether or no they ought to be used in the beginning of Fevers? Which Controversie, omitting all Circumlocutions, is thus determined. In respect of the Matter immediately producing a continual putrid Fever, which is contained in the greater Veins, Purgation is not convenient in the beginning, unless the said matter do heave and work, being so stirred by Nature, provoked by the ill quality thereof, and endeavouring to expel it, that thereby it becomes more disposed for expulsion, and there be danger by the aforesaid working thereof, lest it rush into some noble part; howbeit this seldom happening, for the most part the Concoction thereof is to be expected, before we undertake to evacuate the same by Purgative-Medicines. But in respect of the Matter contained in the first Region, if it be very much, and do encrease the Fever, oppress Nature, and divert her from concocting of that which is in the Veins; Purgatives may be given the next day after blood-letting, but they must be gentle, such as evacuate only the first Region. Now that naughty humors and Excrementitious do abound in the first Region; that is to say, in the Stomach, Guts, Mesentery, or about the Midriff, may be known by Stomach-sickness, Bitterness of the mouth, Thirst, pain of the Stomach, or some other part contained in the lower Belly, Looseness of the Belly, and other Symptoms; in regard of which, purgation is sometimes to be practised before blood-letting. Now the Medicines for this intent, must be Cassia, Manna, Tamarinds, *Catholicum*, *Electuarium lenitivum*, *Diaprunum simplex*, *Syrupus Rosaceus*, *de Cichorio cum Rhubarbaro*; which may divers ways be compounded after this manner:

Take Cassia newly drawn one ounce; Tamarinds half an ounce. With Sugar make it into a Bolus. Or,

Take *Catholicum* six drams; *Elect. lenitive*, or *Diaprunes simple* half an ounce; Cream of Tartar one dram. Make all into a Bolus. Or,

Take Leaves of Endive, Cichory, Sorrel, of each half a handful: Tamarinds half an ounce; boyl all to three ounces. In the strained Liquor, dissolve *Catholicum* half an ounce: Manna and Syrup of Roses, of each an ounce. Mix all into a Potion.

If you desire your Medicine a little stronger, you may add a dram or four scruples of Rhubarb infused in Endive or Cichory Water with yellow Sanders. Yea, and sometimes if the Fever be not very strong, two or three drams of Senna may be added to the Decoction.

Some reject Rhubarb, because it heats; also Manna and Syrup of Roses, because being sweet, they are soon turned into Choler. But with cooling Waters or Decoctions, Rhubarb being infused, or Manna, and such like dissolved, can do no hurt; especially if to the said decoctions, Tamarinds be added, which are much commended to this intent, or if the pulp thereof be given dissolved in the Potion.

Some in Cholerick Fevers do use the Whey of Goats Milk, and that very pertinently; for it tempers the heat of the Fever, evacuates Choler, and strengthens the Bowels. In a Cup of Whey they steep all night one dram, or one dram and an half of Rhubarb, or they add two or three ounces of Syrup of Roses, and so give it in the morning; and afterward they give the Patient a quart of Whey more to drink, that all the Whey may not be infected with the tast of the medicament.

That kind of Purgation which is practised in the beginning of Putrid Feavers; the Vulgar Physicians call Minorative purgation; and that which is practised when the Morbifick matter is concocted they call Eradicative purgation: which is also convenient in the beginning (as was said) in the Judgment of *Hypocrates*, if the matter be turgent. Now this same Turgescence and boyling as it were of the matter, is known hereby, because the Patient perceives in divers parts light pains, which soon go away and shift suddenly from place to place, and hath divers colours of the Face and other parts, so that sometimes there is a redness, and then again a paleness in some part of the Face. And in a word, the Patient is exceedingly tormented with anxiety and unquietness, continually tumbling and tossing.

Howbeit that Rule of *Hypocrates* touching the use of Purgation, when the Morbifick matter doth ferment and work in the Patients Body, is not observed in ordinary Practice: but when the Humors appear in their fermentation and motion, we do more safely apply our selves to blood-letting; and by that means we do more readily prevent the rushing of the stirred Humors into any noble part, which being agitated by the Purgation, may more easily flow into the said parts.

Sometime also in the beginning of these Fevers, Vomit is to be procured, viz. when the Patient is much vexed with illness of stomach, and with vomiting; for then Nature endeavours to evacuate the Morbifick matter upwards, and the Physitian ought to assist her endeavours. And many times it falls out, that great quantity of matter is contained in the Stomach and parts thereabout, which must be evacuated as soon as possible may be by Vomit, seeing no concoction can be expected of such Excrementitious matter in so great a quantity; and what-ever the Patient eats or drinks, is changed into such a like Humor, and encreases the matter which is cause of the Disease. For *Fernelius* hath well observed in his third Book, of the Method of healing, Chap. 3. That all Superfluity of Humors in the Stomach, Spleen, Pancreas, Mesentery, and the Cavity of the Liver, is conveniently emptied out by a Vomit, which sometimes will not be removed with Medicines that work downwards, though divers times administered. And it comes often to pass, that the matter being Vomited up, the Fever is taken away at the first, which otherwise would have proved long, in case that matter had been transmitted into the more inner parts of the Body, and very well mixed with the Blood.

Now of the three degrees which we reckon of Vomitories, the mildest is to be chosen; as Barly-water luke-warm with Oyl of Almonds or common Oyl, with a little quantity of Whitewine Vinegar. Also Syrup of Vinegar, or Oxymel simple, with Chicken broth, or a Decoction of Dill-seed, Rhadish or Orach, whereunto also Oyl may be added. All which are to be given to the quantity of a pint or more; for in a less quantity they abide in the Stomach. And seeing these weaker sorts of Vomits are of little efficacy, we may sometimes apply our selves to those of the middle Rank, which shall be propounded hereafter in the Cure of a Tertain Ague.

And not only in the beginning of the Diseases before Blood-letting, but also the whole Course thereof, Clysters must be given every day, or every other day, if the Belly be not of it self very free, made of a decoction of Emollient and refrigerating things, such as *French* Barly, Prunes, Mallows, Violets-leaves, Mercury-leaves, Bears-foot, Orach, Lettuce, Endive, Housleek, Water-lillies: dissolving therein *Catholicum*, *Cassia*, *Diaprunum* simple, Red Sugar, Honey of Violets, and Honey of Mercury; Oyl of Water-lillies, Violets, &c. But in a violent hot Fever, it is better not to add the Oyls, because they are easily inflamed.

Observe in the first place, that not above three or four blades of Housleek must go into one Clyster, because it cools most potently; and being taken in a greater quantity, may hurt the Guts.

Observe Secondly, that in all Fevers of Choler, Clysters are not to be injected actually hot, but only Blood-warm.

In Fevers that spring from Flegm, decoctions for Clysters are made of the Emollient Herbs with Annis-seeds, Seeds of Fennel and of Carthamus; flowers of Chamomel and Melilor: dissolving therein *Hiera Picra*, *Diaphanum*, Honey of Roses, Honey of Mercury, Oyl of Chamomel, Dill, or Common Oyl.

And because, as we noted before, absolute and perfect Purgation, which they call Eradicative, is not to be attempted till the Morbifick Cause be ripened and digested; the Physitian from the beginning of the Disease, after the first Blood-letting, and when the passages nearest the stomach are cleansed, ought to use such medicaments as prepare crude Humors for digestion and Evacuation, and withal temper the Feverish heat, hinder Putrefaction, and open Obstructions; such as are Juleps, Broths, Emulsions, and other things which shall be hereafter described.

Juleps are compounded in a Cholerick matter offending, of Syrups of Lemons, Pomegranates, sower grapes, Vinegar simple, of the Juyce of Sorrel, of Cichory simple, with waters of Endive, Sorrel, Grass, and Cichory,

Or better, of the Decoction of the Roots of Sorrel and Cichory, of the Leaves of Sorrel, Maiden-hair

Hair, Garden-Endive, Dandelyon, the four cold Seeds, Tamarinds, with the Syrups aforesaid.

And sometimes, that we may cool more effectually, a dram of *Sal prunella* is added, for every Dose of the Julep, or so much Spirit of Vitriol or Sulphur, as shall suffice for a moderate sharpness.

Sour things are never to be omitted in Fevers springing from Cholera, because bitter things are sweetened by sour and acid things: which if they are sour in an high degree, as Spirit of Vitriol and of Sulphur, they deface the bitterness even of Aloes and Coloquintida. Now yellow Cholera being plundered of its bitterness, is dead and harmless.

Juleps also of great vertue, may be made of Juices, and which are very grateful to the taste, after this manner.

Take Juice of apples that smell sweet, newly drawn out and settled, four ounces; Juices of Lemons three ounces, Rose-water two ounces, Juice of Pomegranates one ounce: finest Sugar half a pound: Make of all a clear Julep for three Doses.

If very thin Cholera and sharp be in motion, and cause either a Looseness or some other grievous fluxion, Juleps must be compounded which thicken, of Water of Lettuce, Purslain, Plantane, flowers of Water-lilly, Red Popy and Violets, with the Syrups aforesaid.

Yet we must observe, that Syrup of Violets, and other of the sweeter sort of Syrups, are not to be given alone; both because they loosen the stomach, as also because ere they can pass into the Veins, they are turned into an hot Vapor, which doth afterward cause thirst to encrease. And therefore there must evermore some quantity of sharp Syrup be mixed with the sweet Syrups aforesaid, that they may more easily pierce into the Veins, and better resist the Heat of the Fever.

In the progress of the Fever, when Coction begins to appear, to the aforesaid Decoctions must be added Roots of Asparagus and Liquoris; Leaves of Agrimony, Pimpernel, Liverwort and Maiden-Hair.

In Flegmatick and Cronick Fevers, things more cutting, attenuating and opening are prescribed, beginning with the more weak, such as are Syrup of Vinegar, of Maiden-hair, *Syrupus Bizantinus*, with a decoction of Agrimony, Maiden-Hair, Betony, Liquoris, Raisins. And in the progress of the Fever, unto the former we add Syrup of the opening Roots, Vinegar, compound of Hyssop, Oxymel simple and compound. And to the decoction, we add the five opening Roots, Leaves of Hyssop, *Carduus Benedictus*, and (if the matter be very impact, Clammy and Ropy) of Germander and Centaury. Whereunto if Salt of Tartar, and Spirit of Vitriol be added, they work more happily.

In Fevers springing from Melancholy, such things are added which do moisten, as Syrup of Violets, of Bugloss, of Borrage, and Apples, towards the beginning: and afterwards of Fumitory, of Epithimum, of the five opening Roots, Oxymel of Squills: with a decoction, first of Bugloss, Borrage, Ceterach or Wall-fern, Maiden-hair, Fumitory, Hops; and afterward Dodder, Scordium Centaury, Bark of Capers, of the Alh-tree, and of Tamarisk.

And finally in bastard Fevers, which arise from the mixture of different evil humors, the Medicines aforesaid must be mixed together; yet so that such as respect the most predominant humor be put in the greatest quantity.

For the more nice and dainty sort of Patients, Medicinal Broths are prescribed instead of Juleps; and also that the Sick may not grow to weary of the same kind of Medicine too long used; and these broths are made of such of the Roots and Herbs aforesaid as are most pleasant to the taste, with a Chick, or part of an Hen or Capon: unto which sometimes may be added one dram of *Sal prunella*, or some drops of Spirit of Vitriol, when we would have it more cooling than ordinary.

Howbeit in slow and long-lasting Fevers, caused by rebellious Obstructions hard to be cleared; Germander, though bitter, and Cichory, Endive and Dandelyon though bitter, may be boyled in Broths; and *Montanus* in his Counsels, doth cry up Cichory and Germander boyled in Broths as an admirable Remedy for such as have a long Fever, with Obstructions.

If Fevers arise from flegm, a Decoction of Chamomel is excellent. *Zacutus Lusitanus*, Observat. 26. in the third Book of his *Praxis admiranda*.

Also Emulsions or Almond-Milks are very good in putrid Fevers, and are commonly more pleasing than Juleps. They are most in use, when the Fever is joyned with a dry distemper of the Bowels, or a thin Catarrh, or an Inflammation of the Lungs and parts serving to breathe withal; or for variety, lest the Patient should be over-tired with continual use of Juleps. Now the composition of these Emulsions hath been described in the foregoing Cures.

Cold Water given in great quantity in continual putrid Fevers, was wont to be in use among the antients, and is commended by very many latter Physicians. But as we said the use hereof was dangerous in the simple *Synochus*; so in this Case, we think the discreet Physician shall do best to forbear the same for the Reasons we delivered in our Chapter of the simple *Synochus*.

Yet will it be sometimes good in extream heat of the Fever, to give a good draught of cold water

to ten or twelve ounces, with a few drops of Spirit of Vitriol; For hereby sometimes the same effects are wrought, which *Galen* attributes to cold water being drunk the quantity of three or four pints at a time; When as notwithstanding there are none of these dangers to be feared, which *Galen* himself confesseth did sometimes happen upon the preposterous drinking down of so great a quantity of cold water as he adviseth. For the Spirit of Vitriol causeth that the water breeds no obstructions, but rather opens the same, quickly piercing and passing through the Bowels, not abiding in the Hypochondria, as plain and single cold water is wont to do; but is very like the acid Mineral Fountains and Wells, which though they are drunk in great quantity, do not lie heavy in the parts about the short Ribs, but are quickly pissed forth, and very good against Obstructions.

To strengthen Nature, which in every violent Fever is much dejected, Electuaries are good, and strengthening Conserve and Preserves, compounded of Conserve of Roots of Bugloss, Leaves of Sorrel, Wood-lorrel, Stalks of Lettuce, Flowers of Bugloss, Borrage, Violet, Cichory and Roses, Pulp of Citrons. Whereunto are added the Powders of Coral, Pearls, Ivory, Harts-horn, *Diamargaritum frigidum*, *Diatriasantalon*, *Diarrhodon Abbatis*, *Confectio Alkermes*, & *de Hyacintho*; which are commonly after this manner compounded.

Take Conserve of Flowers of Borrage, Bugloss, Roses, of each an ounce: *Confectio Alkermes* one dram and an half: Powder of *Diamargaritum frigidum*, Ivory, Coral prepared, and Pearls prepared, of each ten grains: Sugar of Roses the weight of all the rest, three leaves of beaten Gold. Make of all an Electuary covered over with Gold, of which let the Patients take often by it self out of a spoon, drinking a little of their ordinary drink after it, or mingle some of it with their ordinary drink, and with their Broths.

Take Conserve of Cichory, Sorrel, Lettuce, and of the sharp pulp of a Citron, of each half an ounce: Powder of yellow Sanders, and of Pearls prepared, of each one scruple: Spirit of Vitriol half a scruple. With Syrup of Violets make all into an Electuary.

Take Conserve of the Flowers of Bugloss, Roses and Violets, of each one ounce: Waters of Endive, Sorrel and Borrage, of each three ounces. Mix them together, let them stand over the warm Embers, and heat; then strain the Liquor through a sarse; then add *Confectio Alkermes* two drams; Powder of the Electuary *Diamargaritum frigidum* half a dram: Coral prepared, Pearls prepared, and Shavings of Ivory, of each one scruple; Syrup of Lemons and Pomegranates, of each three ounces. Mix all, give one spoonful at a time.

For the more dainty and nice sort of People, in great debility of Natural strength, this following Julep very pleasant to the tast may be compounded:

Take waters of Sorrel, Orange flowers and Roses, of each one ounce and an half: Syrup of Lemons and Pomegranates, of each one ounce, *Confectio Alkermes* one dram; mix them. Let the Patient take hereof frequently in a spoon.

Altering Medicines having been used for some days together, and such as prepare bad Humors; when the Fevers begin to decline, we must set our selves to purge out the said Humors, when the signs of Concoction do appear, avoiding the Critical days. And this must be done with Medicines, a little stronger than those which were given at the beginning; of which sort are Senna, Rhubarb, Agarick, Catholicum duplex, and such like; whose Matter and Dose must by the Skillful Physitian be accomodated to the Humors offending, and the nature of the Patient. And some Physitians are so bold as to proceed to Scammoniate Medicaments, as *Diaprunum solutivum*, *Diaphenicon*, *Electuarium de succo Rosarum & Diacarthammum*. Which notwithstanding are very seldom to be used in continual Fevers, because Scammony is wont very much to inflame the Humors, and to cause vehement thirst; and that especially in burning Fevers, in which Scammoniate Medicaments are very hurtful. Yea verily, and Rhubarb it self, although a gentle and most excellent Medicament, is by some suspected as not safe in very Cholerick Fevers, because of its notable heating and drying faculty. Howbeit the hurtful faculty thereof may in great part be corrected, by infusing the same in Cooling waters, and by mingling therewith a Decoction of Tamarinds and cooling Herbs; and by adding thereto Cassia, Syrup of Roses, Syrup of Cichory with Rhubarb, and such like.

If the Fever do still continue, Purgation must be ever & anon repeated, using between whiles preparatives and digestives, till the whole seminary of evil humors be taken away. For otherwise, if we cease Purging before the Fever be perfectly abated and gone, the Patient will be in danger of a Relapse, yet this Rule needs some restriction. For if after many Purgations, a lingering Fever continues which doth by little and little pine the Patients, and seem to cast them into a Consumption; it will be the best course to leave Purging, and seek to conquer the Fever only by Alteratives and Diet. For it sometimes falls out, when there is some evil disposition of the Bowels, causing a protraction of the Fever, that so long as Medicaments are given, so long the Disease continues, because that nature is weakned. Which afterwards (Purgation being omitted) gathers strength, concocts the cause of the Disease, and being concocted, expels the same.

But if a lingering Fever arise from Obstructions, as is often seen in Children, frequent and very gentle Purgings, which draws away Humors by little and little, is wont to remove the Disease; especially if the Purgation be compounded with Rhubarb, which both opens obstructions, and strengthens the Bowels. The Commendations whereof celebrated by *Montanus* in his tenth Counsel of Fevers, is worthy to be set down in this place. He setting down the Cure of a Boy that had a lingering Fever arising from Obstructions: *Among other things, I shall commend (saith he) one which I have by long Experience found never to fail, viz. That he take every day the Infusion of Rhubarb in Endive-water. For I never knew Fever from Obstructions, which was not cured by this Medicament, provided it were constantly taken without weariness, or giving over. For I have sometimes seen most gross Humors impacted into the narrow passages of the Body, and such obstructions, as by reason of the weakness of Natural heat could hardly be removed, cured by Rhubarb. My Course therefore hath been to take one pint of Endive-water, and therein to infuse a dram of Rhubarb tied in a thin piece of Linnen. Of which Infusion, having lightly pressed out the Rhubarb, I give four ounces in the morning; and this is the Dose for Children. Neither do I cease giving this Medicament, until I see the Fever and Obstructions wholly gone. For they will doubtless be cured, if all other things be rightly ordered, and suitable to the Cure: So far Montanus.* But we are wont ordinarily to use a Diet-drink made of Rhubarb, which to such Children as are troubled with a lingering Fever and Obstructions, I am wont to give for their ordinary drinks with good success. It is thus made, half a dram or a dram of Rhubarb according as the Child can endure the tast thereof, grossly powdered and tied in a Rag, is infused in two or three pints of small Beer or Ale an whole day cold: of this the Child drinks for a month together, or longer if the stubbornness of the Disease require the same; whereunto, if the Fever be very remiss, and the Child flegmatick, a little Wine, or stronger Beer or Ale may sometimes be added, to qualifie the unpleasing tast of the Rhubarb.

After Purgation of the Morbifick Matter, Nature is for the most part accustomed in the declination of the Disease, to purge away the reliques of the Matter offending by Urine, which we may discern, because the Urines are then more thick, or more plentiful than ordinary; which endeavour of Nature must be assisted by Diuretick Medicaments, which are most temperate, such as are Emulsions, and the Openers formerly set down in Juleps or Broths; whereunto, if the Fever be very gentle, some Roots of Fennel and Parsly, or Leaves of Wormwood may be added, and that especially in Fevers of Flegm, and continual Quotidians.

But if nature do expel the Reliques of the Morbifick matter to the habit of the Body, Sudorificks are to be used; not to those hot ones, which are more properly called Sudorificks; but others more temperate, which are the same in a manner with the Diureticks; and being of an attenuating faculty, do dispose the Humors in such sort, as Nature may more easily expel them by what place or way soever she is most enclined. Howbeit, to these may be added, Carduus water, Spirit of Vitriol, and other things, which shall be more fully described, when we shall treat of malignant Fevers.

Besides inward medicaments, divers things are also outwardly applied, to temper the Feverish heat, to confirm the strength of the principal parts, or to open the pores of the Skin, and draw out the smoaky vapors, and Feverish heat, viz. Epithems, Liniments, and other things to be applied unto the Region of the Heart, Liver and other parts. Which are invented to mitigate the heat, and are not to be applied save in the state or declination of the Disease, when the heat diffuseth it self to exterior parts; not in the beginning or augment, while it resides yet about the bowels; nor yet when the Crisis is at hand.

An Epithem to be applied to the Region of the heart may be thus compounded.

Take the Water of Bugloss, Sorrel, Water-lillies, of each three ounces; Vinegar of Roses, or juyce of Lemons one ounce: the Powders of Diamargaritum frigidum and Triasantalon, of each one dram: Camphire and Saffron, of each five grains; Mix all. Make hereof an Epithem to be applied warm with Scarlet Claub.

For the more strengthening, and to make it smell the sweeter, add three ounces of Orange-flower water, and one dram of Confection of Alkermes.

Where we desire yet more potently to strengthen, solid Epithems are applied unto the heart, made after this or the like manner:

Take Conserve of Bugloss and Roses, of each one ounce: Confection of Alkermes two drams; Powder of Diamargaritum frigidum one dram and an half. With Juycce of Lemons or Rose-water make a solid Epithem, to be applied after the liquid one aforesaid.

Or one yet more Cordial, may in the form of a liniment be thus made:

Take Confection of Alkermes, and de Hyacintho, of each three drams: Powder of Triasantalon and Diamargaritum frigidum, of each two drams. With water of Roses, make all into the form of a Liniment or Oyntment, wherewith smear the region of the Heart.

Also to strengthen and drive out the Sooty Vapours and the Feverish heat, young Pigeons are very good; being split through the Back bone, and applied to the Region of the Heart, which likewise are oftentimes sprinkled with Cordial Powders, as *Diamargaritum frigidum*, and *Triasantalon*. Or before they be applied, the Region of the Heart is smeared with *Confectio Alkermes*, and the Cordial Liniment aforesaid.

Also to the Liver, Epithems are wont to be applied, which are made commonly after this manner.

Take water of Endive, Cichory, Sorrel and Roses, of each three ounces: Lettuce-water two ounces, Vinegar of Roses half an ounce, Powder of the Electuary Triasantalon one dram and an half, Spodium half a dram, Camphire ten grains: Make of all an Epithem.

For to cool more powerfully, an Epithem may sometimes be made of Juices after this manner.

Take Juice of Cichory and Endive, of each half a pound; Juice of Lettuce, and Vinegar of Roses, of each two ounces: Powder of Triasantalon two drams; Mix all, and make thereof an Epithem.

Now it is very profitable to apply cooling Epithems not only to the Liver, but to the whole Region of the Hypochondria; for they do not only further Coction, but also help the distemper of the Bowels, and hinder the principal parts from a deadly Consumption.

The Region of the Liver may likewise be anointed with this following Oyntment, which also may be applied to the Reins and Loins.

Take Oyntment of Roses one ounce and an half, Ceratum Santalinum one ounce, Juice of Endive one ounce and an half Oyl of Roses, and Wax as much as shall suffice to make a Liniment. Whereunto add a little Vinegar of Roses at the time of anointing.

Also cooling things are profitably applied to the stones, because of the great consent between them and the principal parts of the Body; they therefore being cooled, the heat of the whole Body is in great measure extinguished. To which purpose such an Epithem as this following may be made.

Take Waters of Water-lilly, Plantane, Roses and Cichory, of each three ounces; Vinegar of Roses one ounce and an half, Whitewine two ounces. Mix all, and dip a Cloth therein cold, and wrap the same about the Stones.

Also the cooling of the hands and feet doth great good, because of the consent they have with the whole Body by reason of the Arteries, Veins and Nerves which end in those parts.

Neither need we fear lest it should hinder the voidance of Excrements by the pores, because they are few that come that way; so that there comes more good than hurt by the cooling of those parts.

The Patients may therefore hold in their hands balls of Marble, Ivory, Brass or Lead. Or they may hold their hands in cold Water, with a little Wine and Vinegar mingled therewith. To the soles of their Feet may be applied the Leaves of Lettuce, of Water-lilly wet in Water and Vinegar.

Or to wash both hands and Feet, the following decoction may be provided.

Take Leaves of Lettuce, Violets, House-leek, Purslain, Vine-leaves and Willow-leaves, of each one handful. Heads or Leaves of Poppy (if the Patient rest not) an handful, Vinegar one ounce, Whitewine two ounces, Fountain-water as much as shall suffice; make of all a decoction. Hereunto may be added, if you please, a little quantity of Lye for to strengthen the Joynts. Herewith let the hands and Arms, the Legs and Thighs of the Patient be washed warm twice in a day, or once at bed-time.

We are further more to note, that the Antients frequently used baths of fresh water to cure putrid Fevers, as we see in *Galen* in his Book *de Marcore*, Cap. 7. and in the 11 of his Method, Cap. 6. and 20. and in his 1. to *Glauc.* Cap. 9. and those Baths were either cold in a vehement Fever, such as is an exquisite burning Fever; or Blood-warm in the declination of Fevers, when the signs of Concoction appeared. But in this Age of ours, these kinds of Baths cannot be used without danger, and they are convenient only in one Case, viz. when the Fevers become very lasting, and possessing a Body hot, and dry, and lean, seem likely to turn to an Heetick.

And one thing yet more I shall add for a Conclusion of all, that if the Fever terminate with some Crisis, the reliques of the Morbifick matter must be taken away with a Purge; especially if the Crisis were by way of Sweat or bleeding. For by those Evacuations only the thinner portion of the matter is voided forth, but the thicker being left behind is afresh inflamed, and brings the Patient into a Relapse. Only therefore that Critical Evacuation which is wont to proceed by way of Stool, is secure from a Relapse. Yet we must not so confide therein, as to abstain usually from all Purgation, For the parts about the Midriff are yet foul, and do corrupt the nutriment which comes into those Quarters, from whence proceeds either a relapse into the former, or some new Disease. Therefore it is by far the best way (as some latter Physitians have observed) by repeating once and again a gentle Purge, so to cleanse away all the remainders of the morbid Cause, that all fear of a Relapse, and all occasion of another Disease may be taken away.

Chap. 2. Of the Symptoms which accompany Putrid Fevers.

ALL Authors in a manner who have writ of Fevers, have described those Symptoms which either accompany or follow upon them, with their Cures at the end of their work, that so they might be best accommodated to all kinds of Fevers. Which Counsel of theirs, though I shall not disallow, yet I have thought it much more commodious for the service of Practitioners, to joyn them immediately after the Doctrine of putrid Fevers, seeing in those kind of Fevers they are wont to be most vehement and frequent, and require peculiar Remedies.

So that although very many Symptoms are wont to be cured by the Remedies aforesaid, accommodated to the Cause and the Disease: yet very many there are more offensive than the Disease it self, which are here briefly to be described.

Head-ach, want of Sleep and Ravings, are Cured in a manner with the self-same Remedies, *viz.* Revellers, Repellers, Derivers, Resolvers and Anodines. Revellers are emollient Clysters, and such as are Laxative, Gentle Purgations, Blood-letting, Cupping-glasses, and washing the Feet. Repellers are frontals, Vinegar of Roses, Unguents or Liniments; Derivers are opening of the forehead-Vein and Vescatories. Resolvers are certain Oyls, and certain live Creatures applied to the Head, which likewise are Anodines. And while the foresaid Remedies are used, Juleps are given and Emulsions to temper and qualifie hot and sharp Humors. After all these, come Narcotick Medicines, which are not to be used, but upon extream necessity, when other things will do no good. The matter of all which Medicaments is set down in our Chapters of the Phrenzy and Head-ach, proceeding from an hot Cause. But in the administration of the said Medicaments, one thing must be diligently noted, that they be not to be used when the Crisis of the Fever is near: for they would then disturb the motion of Nature, and hinder the Crisis. Which is to be understood as of all the rest, so more especially of the Narcoticks.

Against want of Sleep and Ravings, a Cataplasim laid to the Soles of the Feet will be very good, being made of fresh gourds beaten, the Leaves of the larger House-leek, of Lettuce, and such like. As also to wash the Feet with a decoction of refrigerating Herbs. For by this means the coldness is communicated through the Nerves unto the Brain.

Convulsions in Fevers, especially Malignant ones do sometimes happen, by reason of Malignant Vapors which vex and fret the Skins which cover the Brain, called Meninges. Against which convulsion-fits we must use revelling Clysters and Cupping-glasses; also often give in Juleps or Broth Epileptick Powders, and finally anoint the Patients Back-bone with Oyl of Chamomel, Violets, Sweet Almonds, and of the Indian Nut.

When profound sleep happens to such as are in Fevers, the same Remedies are given which have been described in the Cure of sleepy Diseases; only observing this one thing, that we give no very hot Medicine inward.

The thirst of Persons Feverish is chiefly allayed with refrigerating and moistening drinks. But if thirst be so violent, that moderate drinking cannot assuage it (and to drink over-much doth much hurt, and oft-times endangers the Patients life) we must by other means deceive and assuage the same.

First therefore, let the Patients draw in the cold Air, and abide in Silence, not speaking a word; let them keep their mouths close, and breathe through their Nostrils, and give themselves to sleep. Let them wash their mouths with Barly-water Blood-warm, or with water where hath been boyled Jujubes, Sebestens, Prunes, Lettuce, Purslain, and such like.

Let them hold in their Mouths a piece of Liquoris scraped and steeped in Vinegar and Water, or let them wash their mouths with Barly-water either simple, or with a little Vinegar in it, or a little juyce of Lemons, Pomegranates, or a little spirit of Vitriol.

Or let them hold in their mouths the Kernels of Pomegranates, or a slice of a Citron, or a Lemon, or an Orange steeped in Rose-water with Sugar; or stalks of Lettuce, Endive or Purslain; Leaves of Sorrel, Bites of a Gourd, Cucumer or Melon first steeped in cold water; or Acid Cherries, or red Currance, or Red-berries, or Tamarinds, or a piece of Crystal, or the stones of sharp Prunes, upon which a little of the Pap hangs, and such like.

Also Sugar dissolved in Rose-water, with a little spirit of Vitriol, and dried again, is very good to quench thirst.

If thirst cannot be taken away with these lighter things, they must be permitted to drink not in the beginnings of the Exacerbations, or fits, nor in the Augment, but very sparingly, but in the vigor, & especially when it is towards declining: for then large allowance of drink doth carry the heat outward

wards, and sometimes moves sweat; especially in the fits of Agues, in the declination of which, it is many times good for the Patient to drink unto satiety. Several materials convenient to make drinks in these kind of Fevers, are set down in the foregoing Chapter.

But if thirst be caused by a Cholerick Humor contained in the Stomach, the said Humor must be voided by Vomit or Stool. Vomit may be procured, if the Patient be Stomach-sick, with an ounce and an half of Syrup of Vinegar Simple, with five ounces of Barly-water, or of the Decoction of Rhadishes. If that will not do, purge the Patient with a Bolus of one ounce of the pulp of Cassia, and three drams of the pulp of Tamarinds, or with two ounces of Manna, dissolved in a Decoction of Prunes or Tamarinds, or of the following Potion, may be given.

Take Cassia new drawn six drams; Mucilage of the seeds of Flea-bane half an ounce: the Decoction of Barly, Prunes and Tamarinds, four ounces: Syrup of Roses one ounce. Mix all into a Potion.

The Heat, Dryness and Roughness of the Tongue and Throat, is cured by divers Remedies applied to those parts, and contained in the mouth, compounded after this manner:

Take of Mucilage of Quince-seeds an ounce: the seed of Mallows half an ounce, Powder of Diatrachanthum frigidum, and Sugar-candy, of each one dram: white Sugar as much as shall suffice. Make of all a Loboch. Or,

Take of Mucilage of Fleabane-seeds, or Quince-seeds extracted with Rose-water, or Lettuce-water, half an ounce: Syrup of Violets, Lemons or Pomegranates, an ounce and an half; mix them. Let the Patients take now and then a little, and hold it in their mouths. Or,

Take Cucumber-seeds half an ounce, Quince-seeds two drams, Gum Tragacanth one dram and an half: Beat the seeds, and dissolve the Gums in the white of an Egg. Mix all, and make thereof little Cakes for the Patients to hold in their mouths. Or,

Take Seeds of Fleabane and of Quinces, of each one dram and half; Gum-Tragacanth half a dram, Sugar-candy three drams. With Mucilage of Gum Tragacanth, make all into little Cakes. Or with a thin Rag make Nodules, which shall be steeped in Rose-water, and held in the Patients Mouth.

If the roughness be very hard to remove, make a Gargarism of the decoction of Barly, Roots of Marsh-mallows Leaves, of Lettuce, Purslain, Violet-flowers, adding thereto Honey of Roses, Syrup of Violets, or Sugar-candy, or Oxymel simple, and such like.

If filth cleaves to the Tongue, as it most times happens, it must be oftentimes wiped with a rough Cloth dipped in a mixture of water and Vinegar. Whereunto also sometimes may be added, the Juice of Housleek and Sal Prunella.

If the heat be more vehement, with great blackness of the Tongue, more refrigerating Medicines must be mixt with the moistening ones, after this manner.

Take Juice of Lettuce, Housleek and Lemons, of each one ounce: Mucilage of Quince-seeds and Sugar-candy, of each, half an ounce: white Sugar as much as shall suffice. Make all into a Loboch. Or,

Take Green Housleek one handful, Vinegar of Roses three ounces, Barly-water one pint: Boil all till the third part be wasted away. In the strained Liquor, dissolve of Sal prunella one dram and an half. Allum a scruple, Syrup of Violets and Mulberries, of each one ounce: Make of all a Gargarism. Or Sal prunella alone may be dissolved in Housleek-water, and the Tongue and Throat washed therewith, which is very good, also some portion thereof may be swallowed to cool the mouth of the Stomach, when it is likewise inflamed.

Also outwardly let the Neck and Throat be anointed with Oyl of Violets and fresh Butter, washed in Rose-water, with which the Throat being as it were scorched and parched, may be moistened.

For cooling, the Oyntment of Roses, and Galen's cooling Oyntment may be used, with others of like nature. But the Leaves of Lettuce and Purslain being bruised and enclosed between two Linnen Cloaths, and so applied to the Neck and Throat, are much more effectual. Also those kind of Bugs which we call Sows, may be bruised and laid on in the same manner.

In great heat of the Breast, such as is wont to happen in Fevers, the whole breast must be anointed with Oyl of Violets, Water-lillies, and of sweet Almonds. Yea, and if the Heat be very vehement, Fomentations ought to be applied to the said part made of a decoction of French Barly, Lettuce, Water-lillies, Borrage, Violets, and such like; after which, irrigations ought to be used of the Oyls aforesaid: Seeing that, according to the prescript of Galen and Avicenna, in such like Fevers, great care is to be had of the breast, as of the Furnace of Heat. Now these kind of Remedies, according to the Rule of *Trallianus*, are seldom to be cold, because they drive the heat inward: nor luke-warm, because they relax; but such things ought to be applied to the breast, as are actually hot, and potentially cold.

* Pain in the Loins is caused in Fevers by hot and plentiful Blood boyling and working in the *Vena Cava*, and it must be eased by Emollient Clysters and Cooling, and Emulsions made of the Cold Seeds, adding *Sal Prunella*; and by anointing the Loins with *Galen's* Cooling Oyntment, with juyce of the larger Houfleeck and Camphire, or *Unguentum Populeon*, or Oyl of Roses, Lillies and Poppies; or with an Epithem made of Plantane water, Rose-water, Vinegar of Roses, and Camphire; or with a mixture of Rose-water, Oyl of Roses and Vinegar: all which are to be applied actually cold in the Summer, and a little less than blood-warm at other Seasons of the Year.

Disquietness, and tumblings and tossings, which are wont to happen in the Fever *Assodes*, and in the fits of a Tertian Ague, are best cured by purging away the Cholerick Humor which vexes and frets upon the Stomach, and other sensible parts; and that by Vomit or Stool, according as Nature seems more or less to affect the one or other way; also it may be drawn downwards by Clysters, and presently all Art is to be used to make the Patient rest, and cold Drink is given, also cooling Juleps, whereunto sometimes Syrup of Poppies, or a little Laudanum may profitably be added.

Swooning Fits are wont to happen in those kind of Fevers which are commonly called *Febris Syncopalis*, or Swooning Fevers, of which there are two kinds, as was said before; and the one is called *Minuta*, the other *Humorosa*. The Cure of which Fevers, much differing from the Cure of other Putrid Fevers, we have reserved unto this place, in regard of the said Symptome of Swooning.

The *Minuta Syncopalis*, which is bred of Cholerick Humors, sharp and venomous, must be cured after this manner: Let the Air be cold and moist, and a little astringent, that dissipation of the substance of the Body may be thereby prevented: Let the Patients Diet be thin, cooling and restorative, of the Broth of Chickens boyled with Sorrel, Purslain, &c. To which may be added Rose-water, Juyce of Pomegranates, and a little Sugar. Bread steeped in the Juyce of Pomegranates, or of Oranges, may be given, if a more liberal Diet is to be granted, as also Cream of Barly or Panadaes, with Juyce of Lemons or Pomegranates. Also Restorative Broths of pressed Flesh, with the foresaid Juyces: To the stronger sort are given the Yelks of Eggs, with Juyce of sower Grapes, the Stones of Cocks, the Flesh of Pullets, Hens, Partridges qualified with the foresaid Juyces.

Let the Patients drink with their Meat, if they have no Inflammation of any Bowel; thin Wine not very old, yet new and windy; or Beer that is indifferent strong, not new, or very stale. When they eat not, or otherwise if there be Inflammation, let their Drink be Barly-water, or water in which a piece of a Loaf hath been boyled, with Syrup of Pomegranates, Lemons, Citrons, Julep of Roses &c.

Sleep is good out of the Paroxysm, but in the same it hurts. And finally, special care must be taken that nothing provoke the Patient to Anger, Sadness, and the like Passions.

In the Paroxysm, Resolutions of the Spirits must be prevented, by blowing cool Air with Fans upon the patients, and by sprinkling them with sweet-smelling waters. Their Face must be sprinkled with cold water of Roses, and Vinegar mingled. With which the Stones of Men, and the Dugs of Women must be bathed cold.

If Heat and Spirits will not be revoked from the Heart to the outwards parts of the Body, it is to be revelled and forced back by blinding of the extreame parts, and by nipping and pinching them; also pluck the Patients often by the Nose, pluck them by their Hair, and call upon them often by their Christian Name. Give of the Crum of White-bread steeped in the Juyce of Pomegranates, or thin fragrant Wine tempered with Rose-water; and when necessity urges, some Cinnamon-water mingled with Rose-water. In the mean space, Restorative Broths are not to be omitted, wherewith *Confectio Alkermes*, and such like may be mingled. Also Cordial-potions are often to be given out of a Spoon made after this manner.

Take water of Roses two ounces, Orange-flower-water one ounce, Cinnamon-water half an ounce, *Confectio Alkermes* one dram, Pearls prepared, and Coral prepared, of each half a scruple. Sugar-Cake made with Pearls six drams: Mix all, and make thereof a Julep or Cordial Potion. To these may be added, the *Electuaries*, and *Conserve*s, and *Preserve*s, described in the foregoing Chapter.

Also the inner side of a Loaf hot out of the Oven, sprinkled with Rose-water and Vinegar, may be applied to the Patients Nostrils and Mouth.

To the Heart, cooling and strengthening Epithems may be applied.

To straiten the Pores, and prevent the Evaporation of the Patients strength and Spirits, wrap them in Linnen sprinkled with powder of Roses, Balauftines and Sanders; or let their thighs be sprinkled with Rose-water, and a little Vinegar.

Let their whole Body, especially the Back, be anointed with this following Liniment.

Take Oyl made of unripe Olives one ounce and an half: Mirles, Quinces, and Mafilage of Seeds

Seed of Fleabane, of each six drams: Gum Araback dissolved in Rose-water two drams, white Wax as much as shall suffice; make all into a Liniment.

A special regard is to be had of the Stomach, because the humor offending is chiefly there collected. Now the Region thereof must be anointed with Oyl of Roses and Quinces, and then also may be laid on a Toast of Bread wet in Juyce of Quinces and unripe Pomegranates. Or if it be afflicted with great heat; foment the Stomach blood-warm with a Decoction of Purslain and Roses, or with Juyce of Night-shade, Purslain, Sowr Grapes, adding thereto Oyl of Roses and Quinces.

The Swooning Fits being removed, and the Patient strengthened, we must bend our minds to remove the Fever, and its Cause. Which may be done by Alteratives and Evacuators, proper for burning Fevers, which we have described in their proper place, viz. where the Cure of burning Fevers is set down.

The Cure of the second sort of Swooning Fevers, which is called *Febris Syncopealis Humerosa*, which is caused by abundance of Flegmatick and crude Humors, is in a manner contrary to the Cure of the *Minuta* newly described. For the Air ought to be temperate, inclining to heat, light, pure and dry. Meats of good Juyce easily digested, prepared with Hyssop, Fennel, and such like Herbs. Let their Drink be thin, and not very strong: Let their sleep and watchings be moderate.

But Frictions or artificial Rubbings of the Body, are by *Galen* much extolled in this Case. In the 12 Method, Cap. 3. They must be used from the beginning of the Disease, with Course Cloaths, beginning above, and so Rubbing downwards; first on the Thighs and Legs, afterward on the Arms, Shoulders and Back. Let the Cloths with which the Frictions are performed be first smoaked with Storax, *Lignum Aloes*, Frankincense, Cloves, &c. When after friction, the Limbs are lustily warm, anoint them with Oyl of Dill, of Chamomel, of Orris, of Castus, and others of a resolving Faculty. Such Frictions as these are highly commended, because they call the natural Heat and Spirits together, with the Humor offending, which did Choak the natural strength into the outward Parts.

In the fit the Sick party must be rowled, by pulling the Nose, Rubbing the Ears, plucking off of Hairs, Loud calling, &c. Also sweet-smelling things must be applied to the Mouth and Nostrils; as Cinnamon and Orange-flower water, Vinegar wherein Cloves have been steeped, inside of a white Loaf dipt in *Hippocras* alone, or Cinnamon Water, or the following cordial Water.

Take waters of Bawm, Rosemary and Orange-flowers, of each one ounce; Cinnamon-water half an ounce; Confectio Alkermes one dram. Syrup of preserved Citron-Peels and of Gilly-flowers, of each one ounce: Mix all into a Potion or Julep, which the Patient must often take of, by a spoonful at a time. Also Eleuaries may be made after this manner.

Take Conserve of flowers of Bugloss, Rosemary, and of Citron-Peels preserved, of each half an ounce: preserved Nutmegs three drams, Confectio Alkermes two drams, Species of Diambra and Diamoschuldice, of each one scruple: with the Syrup of preserved Citron-peels, make all into an Eleuary.

Unto the Heart, Epithems may be applied, and young Pigeons to the Stomach and Stones; Fomentations may be applied, and other things administered, which have been propounded in case of decay of strength.

While these things are in doing, frictions must ever and anon be repeated, which must in this Disease never be omitted.

When the Patient hath a little gathered strength, the Morbifick Matter is to be drawn out by Clysters and purgations (in which *Hiera cum Agarico*, in regard of the stomach, is very profitable) which ought to be gentle and frequent; yet so as fitting preparatives be administered between-purge and purge.

Want of Appetite is common in a manner to all Fevers: for when the Stomach is inflamed, thirst is encreased, but Appetite of eating diminished. Yet sometimes Appetite is so dejected, that the patients can hardly sup a little Broth: which loathing of Meat is caused by Vicious Humors collected into the Stomach, or soaked into the coats thereof; or of corrupt & malignant Vapors which infest the stomach. It ought to be Cured by evacuation of the Morbifick Matter, by Vomit or Stool, and first with an infusion of Rhubarb and Tamarinds. But in the declination, if the Fever be not strong, with *Hiera Picra* dissolved in a Decoction of Barly, Vetches, Wormwood, and other detergent things. Afterwards we must use Clysters, which occasionally do revel from the stomach; Also acid and refrigerating things are frequently to be given, as Syrup of Lemons, Pomegranates, some Cherries, &c. given alone or with cold water. In the declination, or when the Fever ceases, Syrup of Roman Wormwood may profitably be given, either alone or mixed with acid Juyces or Syrups. Let Meats that are grateful, be presented to the Sick: For as *Hippocrates* teaches in *Aphor. 38. Sect. 2.* The pleasanter Meat and Drink, though somewhat the worse, is to be preferred before that which is bitter, and not so pleasant. Also let them eat but little and seldom, for much and

and frequent eating causes, want of Appetite even in those which are well. And let their Meats be sauced (provided they have no cough) with Juice of unripe Grapes, Vinegar of Roses and Juice of Lemons. If the sick do so abhor all Meats, that they can take nothing at all, let them have nourishing Clysters given them twice or thrice in a day; the excrement being first avoided by a cleansing Clyster. When the Fever is wholly allaid and gone, if want of Appetite do remain, let the sick person moderately exercise, and use Capers, Saxifrage, Olives; let him change place, and go into a colder Air. And finally, if these helps suffice not, let the Patient use Wormwood-Wine, and Pills of *Hiera Picra*, which do powerfully cleanse away such Humors as are fast sticking in the Coats of the Stomach.

Hiccuppings and Vomitings which betide persons in Fevers, are opposed by divers Medicaments, the materials whereof are to be sought for in our cures of those Infirmities of Vomiting & hiccuppings, and to be judiciously accommodated to such persons as in Fevers are troubled with those Symptoms. But especially care is to be taken that a critical Vomiting be by no means stopped: Hiccuppings sometimes proceeds from immoderate use of refrigerating things, as *Linnæus* witnesses whose words *Schenkius* doth thus relate, *Hiccuppings Fevers do sometimes follow an over-abundant use of Refrigerating Juleps; and I have seen many so affected by the unadvised Rashness of Physicians; which Symptoms, contrary to the expectation of all Men, I Cured by giving the Patient Wine to drink.*

A Loosness befalling one that hath a Putrid Fever, if it be critical (that is, proceeding from the Conquest of Nature over the Morbifick Matter, & tending to expel the whole or part thereof) it must not be stopped; neither must a Symptomack Loosness be presently stopped at the very first, if it do not very much weaken the Patient, lest the Vitious Humor do flow back again to some principal parts. When it is seasonable to stop it, it must be done with a gentle astringent Purge, with cleansing and Corroborating Clysters; by Medicines taken in, and outwardly applied, which do thicken, strengthen and bind. All which may be taken out of our Cure of a Diarrhæa or Loosness, beginning with the gentler, and proceeding if need be to the more strong by Degrees.

Sweats, if they be not Critical (that is, caused by nature expelling the Humor offensive) but Symptomack [that is, caused by the vehemency of the Disease dissolving the Body, and hunting the Humors through the Skin] & do very much weaken the Patient, they must be suppressed by cooling the Air, with sprinkling cold Water, and the leaves of the Willow and Vine-tree upon the Pavement; and if need be, by opening the Windows; the Body being cooled and ayred by little and little, the Cloaths being light upon the Patient, and a Flock-bed being put instead of a Feather-bed: also by often sprinkling the Patients Face with water and Vinegar mingled together, and finally by the use of cooling Astringent Medicaments; such as are cooling Epithems applied to the Heart, Liver, whole Belly, and often changed. Oyntments made of Oyl of Roses, of Mirtles, of Mucilages, and Astringent Powders, are to be anointed upon the whole Body; but especially upon the Back-bone. Powders of Roses, Balauftins, Pomegranate-rinds, Myrtle, Mastic, *Terra Samia*, &c. must be sprinkled upon the Neck, Throat, under the Arm-pits, and in the Groins. Or let the Patient be wrapped in a Linnen Cloth, sprinkled with a mixture of Vinegar and Water, and the aforesaid powders strewed thereon; being in the mean time careful that no Inflammation or Tumor be in the parts about the short Ribs: for then we must abstain from astringent things, at least such as are strong. The Sweat must not be wiped off, but suffered to dry about the Pores of the Skin, so to stop them, that more may not follow.

Also we must give in at the mouth, Medicaments that thicken and strengthen, as Barly-water boiled with Lettuce and cooling Seeds, Restorative Broths, with Juice of Pomegranates, sower Grapes, Powders of Corals, Pearls, shavings of Ivory, Sanders or Balauftines. Juleps of the Waters of Roses, Lettuce, Purslain, with Syrup of Pomegranates, dried Roses or Quinces. Conserved Electuaries of Conserve of Roses, Corals, Pearles, *Terra Sigillata*, Powder of *Diamargaritum frigidum*, and such like.

AN APPENDIX.

In the Cure of most acute and pernicious Fevers, one thing is diligently to be noted, that such Fevers seldom happen without some inward and peculiar disorder, and commonly Inflammations of some of the inward Bowels, as Liver, Spleen, &c. So that we must evermore be careful of the parts under the short Ribs, of the Head, the Breast, the Womb, Reins and Bladder; that by all means possible we may hunt out which of those is much out of order, and as much as may be restore the same to its Natural Constitution.

Chap. 3. Of the Tertian Ague.

AN Ague, or Intermittent Tertian Fever, is caused by an Excrementitious Cholerick Humor, contained in the first Region of the Body, and there putrefying.

D I F F E R E N C E S. A Tertian Ague is either Legitimate and Exquisite, or Illegitimate and Bastard.

A Legitimate or Exquisite Tertian Ague is terminated in twelve hours, and is caused by the putrefaction of Natural Choler. But a Bastard Tertian hath fits that last above twelve hours. But if it exceed twenty four hours, it is termed *Tertiana extensa*, a stretched Tertian. And it is caused either by Preternatural Choler putrefying, or by Natural Choler mingled with other Humors, especially with flegm.

Also Tertian Agues are Simple, or Double, or Triple. A Simple Tertian is that whose Fits come every other day: A Double Tertian is that whose Fits come every day. And although herein it differ not from a Quotidian or every day Ague, yet they are known one from the other by their proper Signs; shewing the abundance of Flegm or Choler in the Patient; of which Signs in their place. Sometimes notwithstanding in a double Tertian there are two fits in one day, the other day remaining free; and this some latter Physicians do call two Tertians, and make it differ from a double Tertian. Which Distinction notwithstanding is of small moment: A Triple Tertian is when there are three fits in the compass of two days. This is a most rare, and seldom-seen sort of Fevers. Yet *Galen* propounds one single Example thereof, and I saw another in the year 1637, in a certain Gentleman, who once in sixteen hours had a fit of a Tertian Ague. And all the fits did every one of them terminate in the space of ten or twelve hours by sweat. Now these divers Paroxysms are made by a different matter putrefying in different places, so that each one hath as it were its peculiar Chimney where it is first kindled.

Now the Humors causing Tertian Agues, are collected chiefly in the first Region of the Body, *viz.* In the Liver, the Bladder of Gaul, Stomach, the Mesentery, the Pancreas, or in the Veins of those Parts.

C A U S E S. Their Causes are all such things which engender Excrementitious Choler, *viz.* An hot and dry distemper of the Spleen, youthful Age, Hot Constitution of the Air, Watchings, Cares, Anger, Fastings, use of hot Meats, overmuch Exercise. To these are added, for the breeding a Bastard-Tertian, such Causes as engender Flegm and Melancholy. Hereupon, such as have hot Livers, and by Glutinous and bad Diet do breed many Crudities, are subject to bastard Tertians by reason of the mixture of Choler with crude Humors. And hence also it is, that in Summer-time crude Humors breed through weakness of the Natural Heat, by eating of Fruits, and overmuch drinking, being mixed with Choler, do breed bastard Tertians.

S I G N S. The Signs to know an Exquisite Tertian by, are these: That this Fever always begins with great shaking-fits, whereas in a Quotidian Fever or Ague, there is only a light shivering or coldness. After the cold shaking Fit, follows great Heat, sharp and biting, Intollerable Thirst, great and frequent Breathing, want of Sleep, Head-ach, and sometimes Ravings. After the shaking-fit, sometimes there follows a vomiting of Cholerick Humors, or a purging by Stool. The Urine is sometimes Yellow, Yellowish-Red or Red. The Fits last not above twelve hours, and they are terminated by Sweat: Also the causes fore-cited, breeding Choler, have preceded.

In a bastard Tertian, all the foregoing Signs are more remiss than they are in an Exquisite one, but more intense than in a Quotidian Ague. And according as there is more or less flegm mingled with the Choler, the Fits come nearer to those of an Exquisite Tertian, or of a Quotidian; both in respect of the vehemency of the Symptoms, and the length of the Fit it self. So that the Paroxysms of a bastard Tertian may be lengthened out to sixteen, eighteen, or more hours. Although they may be sometimes shorter, because of the paucity of the Matter, and be terminated within the space of eight, ten, or twelve hours.

P R O G N O S T I C K. The Prognostick of this Disease is taken out of *Hippocrates*, in *Sec. 4. Aph. 39.* Exquisite or exact Tertian Agues last but for seven fits at most. And in *Aphor. 43.* of the same Section, all Intermittent Fevers are void of danger. Which is to be understood only of such Tertians as are void of all malignity. For there are Malignant and Pestilent Tertians, which though they have evident Intermittions, yet do they often kill the Patient. Furthermore, many things fall upon the Neck of a Tertian, which may breed danger, although the Fever of it self be not dangerous.

Haly writes, and common experience shews, That if such as are sick of a Tertian Ague, have Ulcers, Scabs, or Pustules breaking out in their Lips, it is a token the Ague will leave them. For it is a kind of Critical Evacuation in those parts.

A Looseness befalling one that hath a Tertian Ague, the matter being digested, ends the Disease. And this is the way by which alone Nature doth perfectly expel the Cause of these Fevers: For seeing the Original Cause of these Fevers is contained in the Gall-Bladder, or the Liver, or the Mesentery, or other parts in the first Region of the Body; although that which steams and vapors therefrom in every fit, do get into the habit of the Body, and is purged away either by Sweats, or by insensible Transpiration, or by Pushees and Pimples; yet the gross parts and settlings of the Humor, abide in their place, which unless by the benefit of Nature or Medicaments, it be purged away by stool, it is wont to be the Cause either of a long Ague, or of Obstructions, or of a Relapse, or of other stubborn Diseases.

Agues are wont to be of small durance, and little danger, if the habit of the whole Body be good; if the Bowels be well affected, if it be Spring or Summer, if the Patient eat little, and drink sparingly. And contrariwise, they are wont to be long, and more rebellious, if there be an evil disposition of the Liver or Spleen, if the Patient abound with flegmatick Humors or Melancholick; if the Winter or Autumn be in their full force, if the Patients do eat much, or by much drinking do oppress their Natural Heat.

CURE. The Cure, as in other Fevers, is to be directed to the Fever, its Cause, and strength of the Patient. The Fever calls for Coolers, the Cause requires Coolers likewise, and withall such things as digest and purge the Humor offending; the Patients strength calls for things that corroborate and vigoate the same.

And in the first place, a cooling Diet must be appointed, and which moistens; it must be the very same in an exquisite Tertian, which we before prescribed in our Cure of Continual Fevers. But in a bastard and single Tertian, a fuller Diet somewhat is to be enjoined, especially if the Disease prove to be long; for then solid Meats are to be given on the well-day, and five or six hours before the fit. But in a double Tertian, as in an exquisite Tertian, the Sick must be nourished only with Broth, and other supping things.

This is a most pleasant Drink out of *Forests*, for those which have a third-day Ague.

Take Fountain-water two pints, Cinnamon half an ounce, Sugar three ounces: Let all be strained cold and run through an Hypocras Bag.

The Patient must not eat when the Fit is coming, according to that saying of *Hypocrates*, in *Aphor. 11. Sect. 1.* For Nature (as *Galen* shews in his Commentary on that place) by Concocting of newly-eaten Meat, is called away from Concoction of the Morbifick Humors. Add hereunto, That in the fit of an Ague, the whole body is filled with a filthy vapor, which doth mar, & for the most part corrupt that meat which is eaten near the fit. But if the fit prove so long, or the Patients body so hot and dry, so lean and thinly woven together with wide pores, that it is soon dissolved and dissipated, and cannot hold out to the end of the Fit; the Patient in such a case may be allowed to eat in the Fit, and it will be better to eat when the Fit is in the state or height, than any other time. Howbeit, in the beginning also, and in the augmentation, necessity compelling, Meat may be given. For so *Galen* in the tenth of his Method, Chap. 5. was compelled to give Meat even in the beginning of the Fits, unto such as had this kind of Ague, being of a hot & dry temperature, unto whom fasting is extremely hurtful, lest they should fall into swooning Fits. And in imitation of him *Amatus Lusitanus* in the 68. Cure, of the fourth Century, to one that was full of and vomited pure Cholek, and by that means fell into swooning Fits, he gave bread dipt in water, and sprinkled with Juice of Sowr Grapes in the beginning of the Ague-fit; by which means he hindered the aforesaid Symptoms.

There is one thing yet further to be observed both in this and all other Agues, That the Patient do neither eat, drink, nor sleep before the Fit. But it will be good that the Patient go to stool by means of a Clyster, provided the same be administered before the beginning of the Fit.

Having therefore ordered a convenient Diet, we must forthwith proceed to evacuate the Morbifick Matter, which seeing it sticks in the first Passages, it must be voided not only by Clyster, but by Purges and Vomitories.

Clysters in an exquisite Tertian must be made of an emollient and cooling decoction, with Cassia, Catholicum, Diaprunum simple and purgative. But in a bastard Tertian, let the decoction be of emollient and Cutting-simples, dissolving therein Diaphoenicon, Honey of Roses, &c.

Purgative Medicaments in an exquisite Tertian, must be the same which have been propounded in continual Fevers. But in a bastard Tertian, there must be added Agarick, Senna, Catholicum, Diaphoenicon, and others, such as the judicious Physician shall conceive most suitable to the constitution of the sick. And in every sort of Agues, Cream of Tartar may profitably be added to the Medicaments, because it opens Obstructions, is potently cleansing, and yet cools withall. Purging Medicines are to be given on the day of Intermission, and that in the morning, as commonly is used, if the time of Intermission fall within those hours: if not, the middle space between the two fits must be chosen.

And at any hour of the day or night, we may give a Purge, provided it be far from the Fit, and the Stomach have digested what was last eaten.

But in a double Tertian, 'tis an hard matter to choose a convenient time to give a Purge, because many times, not above three or four hours do fall between two fits. Yea, and sometimes the fits are so long, that the one begins before the other be ended, which makes them be called *Febres Subintrantes*, encroaching or intruding Fevers. For then the speediness of the occasion, or opportune time, requires the utmost diligence of the Physitian. Now the more commodious hour of giving the Medicine, is thus to be chosen. In a double Tertian not encroaching, the Medicament must be given in the end of the Fit, at such a distance from the following Fit, that the working of the Physick may be over ere the other Fit come. But in an encroaching Ague, when the latter Fit interferes with the former, the Medicament must be given in the beginning of the declination, as soon as it begins never so little to remit. And in both Cases the Patient must drink Broth three hours after the Medicament is taken, yet so, as that there must be remaining three hours for the Broth-taking before the next Fit begin. So that the Medicament is to be given at least six hours before the next Fit.

As for Vomits, What was said of them in the Cure of Continual Fevers, may be here very commodiously applied; because the abundance of evil Humors contained in the Stomach, Mesentery and Cavity of the Liver, which is wont to cause these Fevers, is brought away by vomit; which sometimes cannot be moved by purging-Medicines given again and again, as *Fernelius* hath well observed. And therefore, If in the beginning of the Fit the Patient be vexed with vomitings, the Physitian shall do well to follow that motion of Nature. And seeing the gentlest sorts of vomits will not ordinarily serve the turn, we must proceed to the middle sort, such as is especially *Asarum*; of the powder whereof, half a dram, two scruples, or one dram, is given in Broth, or some other convenient liquor. Others give the Decoction thereof, which is made of three drams of *Asarum*-roots boyled in Chicken-Broth, or in Barly-broth made with Raisins. The Chymists do give white Vitriol prepared, and Salt of Vitriol, and also *Aqua Benedicte*, which is made of *Crocus Metallorum*. Which, as other Medicaments made of Antimony, as they do sometimes happily rid away such morbidick matter as is lodged in the first passages about the Stomach and Mesentery, &c. So do they require a prudent and skilful Physician to minister them; otherwise they are like a sharp Knife in the hand of an Infant, or like a Sword in the hand of a mad-man.

The first passages of the Body, or the first Region thereof being purged at least with one purge, a Vein is to be opened on the well-day. Yea verily, and if the Patient be plethorick, the Urines red and thick, the Cure is well begun by blood-letting, for the purge will afterwards work the better.

If the Blood appear very hot, adust or putrid, blood-letting must be repeated; which yet is left to the judgment of the Physitian, according as he finds the Patients constitution.

After purgation and phlebotomy, we must endeavour to prepare the humors by Juleps, such as were set down in the Cure of continual Fevers; the matter whereof must be varied, according as Flegm or Melancholy is mingled with Choler, as was observed in the place aforesaid.

In the mean time, whilst the Medicines aforesaid are making, the Feverish heat is to be allayed with cooling Epithems applied to the heart and liver, such as were propounded in continual Fevers, with this Caution, that they be never laid on, but in the height of the hot Fit, or rather when it first begins to abate.

To the Liver also and the Loins, Oyntments of Roses, or the cooling Oyntment of *Galen* may be applied.

Also Emollient and cooling Clysters will be very good at the end of the Fit, as well as in the beginning.

The matter being prepared certain days by the use of Juleps, Purgation must be again used with *Senha*, *Rhubarb*, *Catholicum*, Syrup of *Roses*; adding thereto *Agarick*, if Flegm abound. And if the patient be strong, we may add *Diaprunum Solutivum*, *Electuarium de Succo Rosarum*, or *Diaphanum*.

The Body being again purged after the use of Juleps, if the Fits return and seem longer than they were before, it is a sign that gross Humors, and such as stick fast in the Body, do nourish the Fever, and breed Obstructions. In regard of which, cleansing, opening, and cutting things are to be used. The principal of which is *Wormwood*, which is exceedingly commended by *Galen*, in his first Book *ad Glauconem*, Chap. 9. And *Centaury*, which in regard of the rare virtues it has in curing Agues, is called *Pulegius*, that is to say, Ague-queller. But because the Herbs are hot, they may be qualified by the Conmixture of cooling things, after this manner.

Take Roots of *Grass*, *Cichory*, *Asparagus* of each an ounce. Leaves of *Agrimony*, *Sorrel*, *Cichory*, *Endive*, of each one handful: vulgar *Wormwood* and *Centaury* of each an handful: boil all to a pint in the strained Liquor, dissolve three ounces of Syrup of *Marsh-mallows*. Make all into a Julep for to be taken at three times in the morning.

The Juleps being finished, a Purgation must be again administered, or a vomitory, if Nature affect to discharge her self that way. For then, the signs of Concoction appearing, these Fevers are sometime

sometimes happily Cured by Vomiting. And *Galen* in his first Book *ad Glauconem*, Chap. 10. writes, that many are Cured of this kind of Ague only by a Vomit, yea verily, and daily experience shews, that *Aqua Benedicta* doth eradicate these Fevers or Agues for the most part, unless some contumacious Obstructions of the Bowels do hinder. Many Experiments hereof are propounded by *Martinus Rulandus* in the Centuries of his Cures. But it is, as was said before, a vehement medicament, and not to be given without extream Caution. Some give an ounce of *Aqua Benedicta*, with the Infusion of half an ounce of Senna, and so it works more by Stool than by Vomit.

Others use *Cambogia*, other *Mercurius Dulcis* with Scammony. Which medicaments, seeing they do potently Evacuate, do often pluck these kind of Fevers away by the Roots; but they are to be given only to such as are strong of Constitution.

To these medicaments exquisite Tertians and Bastard ones too are wont to give place. But if the Agues do yet stubbornly resist (as it oftentimes falls out) solemn Purgation must be made with an Apozem to be taken three days, made of the materials of the foresaid Juleps, adding thereto Senna, Rhubarb, Agarick, Syrup of Roses, of Cichory with Rhubarb, and such like; Yea verily, and although the Ague be gone before the use of this Apozem, if a Voluntary Looseness do not befall the Patient: For the solution of an Ague by Sweat or insensible Transpiration, as not to be trusted unto, gives suspicion of a Relapse; because by them the thinner part only of the Humor is Evacuated, the thicker being left behind: which can no other ways be evacuated, save by Stool.

Before the Apozem aforesaid be used, if there be a Distension in the parts under the short Ribs; let this following Emollient, attenuating and strengthening fomentation be applied.

Take Roots of Marshmallows, Grass and Asparagus, of each one ounce: Roots of *Enula campana*, and the middle Bark of Tamarisk, of each half an ounce: Leaves of Mallows, Violets, Agrimony, Maiden hair and Wormwood, of each an handful: Linseed and Fennugreek-Seed, of each one ounce; Flowers of Chamomel, Melilot, Roses, of each a pugil: Boil all in three parts of water, and one of Whitewine, put in towards the conclusion, with two ounces of Vinegar: With this Decoction foment the parts under the short Ribs Morning and Evening, for two days before the use of the Apozem.

After Fomentation, anoint the said parts with this following Oyntment.

Take Oyl of Lillies, Sweet Almonds and Tamarisk, of each one ounce: Oyntment of Marshmallows two ounces, and a little Wax. Make all into a Liniment:

If after all these Remedies, the stubborn Ague do yet lengthen the time, and keep its ground: and the Patients Face appear swoln and palish, also their Legs swell towards night: they are to be plied with such Medicines as are commonly prescribed for Obstructions of the Liver. Among the rest, *Moutanus* doth very much commend the Decoction of Cichory and Germander in Broth; which he says is admirable in long Fevers that are caused by Obstructions:

Yet it is to be noted, that the length of a Tertian Ague is sometimes caused by an hot and dry distemper of the Liver, which perpetually produces a Cholerick Humor, the cause of new Fits. Which is often observed in many, which being of a dry and meagre constitution of Body, and wholly Cholerick, have had a Tertian Ague three or four months together, especially in the more hot season of the year, without any tension of their Bowels, or any abundance of Humors. To such as these, strong Purgers and strong Aperitives or Heaters do hurt. But such as these are to be plied with a cooling and moistning Diet, with Juleps and Broths of the same Nature. And the superfluous humors are to be purged away by little and little with Emollient and Refrigerating Clysters, with Cassia, Tamarinds, Catholicon, and Syrup of Roses. But in this case especially great miracles are performed by a Bath of Blood-warm water, which doth extinguish the hot and dry distemper which is imprinted upon the Bowels. Let the Patient use these Baths on the well-day, but without sweating.

Sometimes also the length of Tertian Agues arises from the evil disposition of some of the Bowels, especially of the Liver and Mesentery; which cannot be cured by purgations, though never so oft repeated, because that evil Quality remaining still in the Liver, causes new morbid matter daily to breed; which produces new Fits. Which evil disposition or quality of the Bowels is taken away by Diureticks, Sudorificks, and other resolving medicaments.

With which faculties these following simples are endued, viz. Wormwood, Centaury, Carduus, Roots of Dictamnus, of Pimpernel, Tormentil, &c. Of which are made Decoctions, Powders, and such like, which must be given for divers days together before the Fit.

A dram of Venice Treacle is ordinarily given with Whitewine before the Fit, three times one after another.

Some give a Walnut preserved in Sugar or Honey after the same manner.

When the heat of Venice Treacle is feared, it is at first given by it self, and a draught of Plantane Water

Water is given after it. My Master *Varandens* did often use this as a Specifick Medicine.

A Cup of *Hippocras* given before the Fit, will work the same effect, with which pleasant Medicine many have been Cured.

Yet must it carefully be observed, that these Remedies must not be given till the Patient hath been diligently purged.

Zechius frequently used these following Pills, which are most effectual for opening Obstructions, strengthening the Liver, and taking away the distempers of the Bowels.

Take Troches of Rhubarb, of Eupatorium and of Wormwood, of each half a dram: Powder of Diarrhodon Abbatis one scruple, with Syrup of Wormwood make a Mass of Pills. Of which let the Patient take one dram in the morning three days together, drinking after them a draught of Broth made with Cichory and Maiden-hair.

Montanus was wont to give many days together a scruple of Troches of Rhubarb or of Wormwood, with Broth in which Barly, Parsly Roots, Cichory and Borrage have been boyled.

Let the region of the Liver be anointed morning and evening before meals, with a Liniment made of two ounces of *Ceratū Santalinum*, juyce of Cichory half an ounce, juyce of Wormwood two drams, and a little Vinegar of Roses.

In like manner let the region of the Stomach be anointed with this Liniment.

Take Nard Oyl, Oyl of Wormwood and Quinces, of each half an ounce: Gallia Moschata one scruple, white Wax as much as shall be requisite. Make all into a Liniment.

Besides the Medicaments hitherto propounded, which respect a regular and Methodical Cure; there are many other specifick and Empirick Medicaments, both internal and external; both commended by Practitioners, and frequently used by the common People; out of the almost infinite number whereof I shall here set down such as are the choicest. And among these Medicines, may be reckoned such things as were before propounded, to amend the evil quality of the Liver and Mesentery, which is wont to make long Agues: whereunto, these things following may profitably be added.

And in the first place, Spirit of Sulphur in a legitimate Tertian, or one very near Legitimate, after bleeding and purging, being given with Purslain-water in the vigor of the Fit, doth powerfully extinguish the heat of the Fever; and if the Humor be thin, drives the same out by Sweat, that there remains no matter for a new Fit, and so is the Disease sometimes pluckt up by the roots. It is given from half a scruple to a scruple, with four ounces of Purslain-water.

And sometime the said Spirit is mingled with Salt of Wormwood, which is also of great Efficacy in the Cure of Agues; the Consumption is thus.

Take Salt of Wormwood half a dram, Spirit of Sulphur a scruple, Carduus-water four ounces; mix them. Let the Patient take it when the Fit approaches, and be covered with many Clothes.

Some affirm, that the Juyce of Plantane Clarified and drunk to the quantity of four ounces an hour before the Fit, doth Cure a Tertian Ague. Some give it with Vinegar and Saffron after this manner.

Take of the juyce of Plantane four ounces, Vinegar of Roses half an ounce, Saffron three grains; Mix them, and give the Patient to drink two hours before the Fit.

Manardus prefers a Decoction of Chamomel, or the distilled water thereof, to the quantity of four ounces, two hours before the Fit.

A Medicine commonly used, and often successful, is a little Potion made of Rose-water, Plantane-water and *Aqua Vite*, of each a Spoonful, given before the Fit.

These following are outwardly applied.

Take Leaves of Hyssop and Tanfie cut small, of each one pugil: Myrrh two drams; Mace, Nutmegs, Cloves and Cinnamon, of each half a dram: Venice-Turpentine and Juyce of Tanfie, of each one ounce: Mix all, and spread them upon a Rose-Cake fryed in a frying-pan with Canary Wine, which being covered with a Linnen Cloth, must be applied hot to the Region of the stomach, an hour before the Fit. Or,

Take Wormwood and green Mint, of each a pound: Crust of Bread toasted and steeped in Vinegar half a pound; pulp of Quinces, or Conserve of Quinces made with Honey two ounces: Mastich half an ounce; Mace and Nutmeg, of each two drams: Let all be beaten, and lustily wrought together with Oyl of Quinces. Make hereof a Cataplasm to be applied before the Fit. It provokes sweat, and takes away the Pains of the Stomach. Or,

Take Nutmeg, Cloves, Cinnamon, of each three drams: Myrrh and Ginger, of each two drams; make all into a Powder; mix it with Liquid Pitch, and make thereof a Plaster for the Stomach.

Also this following Cataplasm may profitably be applied to the Liver.

Take white Sanders and Red, of each one dram: Barly meal two drams, Aloes half an ounce; Flowers of Violets and Roses dried, of each one dram: With Juyce of Wormwood and Vinegar.

Vinegar make a Cataplasme, to be applied to the Region of the Liver one hour before the Fit.

Neither are those Medicines wholly to be rejected which the common people are wont to apply unto the Wrists of such as have Agues. For not only the Opinion of People is hereby satisfied, who conceive that many are cured with these Remedies; but somewhat they may effect, by communicating their vertues unto the heart by those notable arteries which are situate in the Wrists. The chief of which kind of medicines are these that follow:

Take Leaves of Plantane, Celandine the great, of each one handful; Cobwebs, Nettle Seeds, Stot from the Chimney, and common salt, of each one dram: the strong Vinegar as much as shall suffice: Make of all a Cataplasme to be applied to the Wrists a little before the Fit, and to be repeated fresh three or four times.

Mouf-ear beaten with Salt and Vinegar, is by some accounted of great efficacy, being applied to the Wrists before the Fit.

Of some, the smallest sort of Houfleeck or Mouf-ear is commended, being used after the same manner.

Others commend the Leaves of Shepherds-purse beaten with Salt and Vinegar.

Platerus applies unto the Wrists the inner bark of the Nut-tree steeped in Vinegar; which he saith had been by him used with success.

Finally, Others apply such things as are apt to blister the Skin, as Garlick, Onions, Crow-foot, and the like; which are less safe than the former, and very troublesome to the Patient.

Chap 4. Of a Quotidian Fever.

A Quotidian Ague is so called, because its Fits do return every day. Wherein it agrees with a double Tertian, and a triple Quartan, but is distinguished from them by signs proper to itself. This Fever is most rarely seen; so that among six hundred Patients that have Agues which come every day, scarce one of them is troubled with a Quotidian or every-day-Ague.

CAUSES.] This Ague is caused by flegm putrifying in the first Region of the Body: and therefore all such things as multiply flegm in the Body, may cause this Ague, such as are a cold and moist distemper of the Bowels, old age, child's age, an idle life, Autumn season, meats cold and moist, long sleeps, and such like.

DIAGNOSTICK.] The Diagnostick signs are such as testify flegm to abound in the Body; as greatness of bulk, softness and fatness, white colour or pale, dull sense, profound sleep, and dreams of Waters. Also this Fever for the most part comes in the night, and that without shaking, only with a coldness or light shivering, because the morbid matter being benign, and not much an enemy to Nature, doth less provoke her; and therefore the heat is not suddenly drawn inward as in a Tertian ague, but retires by little and little. The time of coldness being over, heat is slowly and unequally kindled, so that the Patient feels sometimes heat, and then cold, and then heat again. Also the heat is mild, and not at all scorching, and thirst little. The Urines are at first white, thin and undigested; and in the process they appear more thick, and better coloured. The Pulse is small, seldom and slow. The Parts about the short Ribs do swell, and are commonly puffed up, and distended. The fits do commonly last twelve hours, and do not end but so as to leave some Feverish heat behind them; because this Fever is like a fire of green Wood, which is both long in kindling, and leaves much smoke behind it. Sometimes the fit is extended to twenty-four hours, and it seems to be a continual Fever.

Now these signs are very variable, and appear more intense or remiss, according as the flegm is either simple, or mingled with other Humors; and likewise according to the different kind of the flegm which putrifies. So that according to *Galen* in his Book of *Plenitude*, Cap. 11. Salt flegm makes the Patients thirsty; acid or sour flegm makes them hungry; sweet flegm makes them sleepy; tasteless flegm makes them without appetite to meat: and likewise Fevers which are caused by acid or Glassie flegm, are wont to come with a shaking-fit.

This Fever is wont to be perpetually long, because of the thickness and contumacy of the Morbid matter, and lasts forty days, and sometimes three or four months. Neither is it without danger, seeing it may generate into a Cachexy, Dropsie, Lethargy, and other grievous diseases. The longer or shorter duration of this Fever is known by the signs of this crudity and concoction, and also by the Evacuation, which for the most part Nature endeavours by Vomit, Stool or Sweat: For those Evacuations appearing, shew the disease shorter: but if Nature endeavour no Evacuation, the disease will prove the longer.

PROGNOSTICK.] A Quotidian ague that comes in the day-time, is less dangerous than that which comes at nights, as *Hypocrates* doth teach us in 3. *Epidem.* Sect. 5. T. 64. He calls the former a Diurnal, the latter a Nocturnal. The reason of which Prognostick is, because

that the Diurnal have longer fits; for reaching unto night, in which the pores of the skin are closed, the putrid vapors are kept within, not having freedom to breathe forth, by which means the fits are lengthened, and as *Hypocrates* himself saith, do very often bring the Patient into a Consumption. Add hereunto, that seeing the Intermision happens in the night, we are forced to give the Patient meat in the night, which is unseasonable, and hinders the Patient from sleeping; by which means great weakness is caused, and the Patient is much hurt, and the functions of the Body quire out of frame.

CURE.] The Cure must be in a manner the same with that which was propounded for a bastard and lingering Tertian; yet so as that among such things as prepare the Humors, and open obstructions, we make choice of such, which have a greater power to attenuate and cut the Humors. Also in this Feaver a special care is to be had of the stomach, which for the most part is grievously afflicted; and therefore must be recreated with strengthening Medicaments, both given in, and outwardly applied. The Cataplasim of Mint and Wormwood, propounded in the Cure of a Tertian ague, is very good in this case.

Zacutus Lusitanus propounds two Medicines, with which he glories that he had vanquished most stubborn Quotidian Agues. The one is a decoction of Chamomel, made after this manner:

Take Flowers of Chamomel three pugils; Tops of Roman Wormwood two pugils. Boil all in three pints of Water to a pint and an half. Add to the strainings four ounces of Sugar: Let the Patient drink five or six ounces every morning.

The other is a decoction of China and Guajacum drunk twenty five days together; which though Physicians are afraid to use in Feavers as these, because of the over-great heating and drying Faculty; yet is it mightily commended by such as have writ whole Books of the spices and drugs of *India*. Yet we must remember, that *Zacutus Lusitanus* practised Physick in a Country cold and moist, where these medicines may more safely be used. And therefore in other Countries that are hotter, they must not be given, save unto very flegmatick and cachectical Bodies.

Chap. 5. Of a Quartan Ague.

A Quartan Ague is that which hath its Fits returning every fourth day, and it is caused by melancholy putrifying in the first Region of the Body.

DIFFERENCES.] Now Melancholy is of two sorts: Natural, and Preternatural. The Natural is bred of the thicker and more earthy part of our Nourishment; being cold and dry. The Preternatural is caused by adustion of choler, and is therefore hot and dry. Hence arise two sorts of Quartan agues; for that which is bred of Natural melancholy, is called a legitimate Quartan; that which is bred of Preternatural melancholy, is called a bastard-quartan. Howbeit, the bastard-quartan may also come of Natural melancholy, being mingled with some portion of choler.

Again, a Quartan ague is either single, double or triple: a single quartan is when one fit alone comes every fourth day; a double is when two fits happen upon two days one immediately after the other, and the third day is free; a triple quartan is when the fits come every day, as they do in a Quotidian, and in a double Tertian. Now these double and triple Quartans come of melancholy, putrifying in divers parts of the body.

SIGNS.] The signs to know this Ague by, are first, such things as argue that melancholy abounds in the Patient. Unto which must be added the coming of the fit upon the fourth day, which is the peculiar sign. Also the form of the fit differing from the fits of other Agues, doth discover this disease. For it begins with yawning and stretchings, together with heaviness of the whole body; after which follows cold, and then shivering and shaking, in which the Patients seem to have their bones broken. Also the heat is kindled by little and little in a cold and thick matter. The Pulse is seldomer and slower than in other Feavers. The Urines are at first white, thin and watry; but in the progress they are more coloured, and thicker. Now these signs appear in a legitimate Quartan. But in a bastard quartan, the vehemence of the symptoms being greater, doth argue the Humor to be thinner and hotter. But a bastard-quartan is not distinguished from a legitimate herein alone, in that in a bastard quartan, the heat, thirst, watchings, and other symptoms are more vehement; but in that the legitimate begins of it self, without any Feaver foregoing; but a bastard quartan succeeds other Feavers and Agues, by reason of the adustion of the Humor which caused those diseases, by means of which adustion, it degenerates into Preternatural melancholy.

A double Quartan is easily known by the course of the fits. And a triple-quartan is distinguished from a double Tertian, and a Quotidian, not only by the signs of Melancholy abounding, and by the form of the fits; but also because it was first a single or a double Quartan, before it came to be a triple quartan. For very rarely, or never doth a Quartan-ague begin with a triple; but a single or double Quartan degenerates into a triple.

PROGNOSTICK. As for what concerns the Prognostick; this kind of Ague is wont to be longest of all others; and that which begins in the fall of the Leaf, continues all Winter commonly, and goeth not away till the Spring come. Yea, and some Quartans continue a year or years. Summer Quartans are the shortest. In all of them we must have a continual eye to the signs of concoction, which signifie the solution of the disease to be at hand; and with these, for the Patient to make black Urine is a good token.

A legitimate Quartan is longer than a bastard Quartan, because the former proceeds from a thicker, the latter from a thinner humor.

This kind of Ague is wont to be very safe from danger, especially the legitimate, being accompanied with no grievous affection of any of the Bowels. But the bastard Quartan is more dangerous; and if the Liver, Spleen, or any other part be grievously damnified, it degenerates into a Dropsie.

Aged persons above sixty years, being taken with a Quartan-ague, do for the most part die of it: because their natural heat is too weak to overcome so contumacious an humor.

An intermitting Quartan, being changed into a continual, is for the most part deadly: Because that feaver whose motion was outward, is changed into one whose motion is inward. Which mostly falls out in the Winter, the cold meeting with the humors which were but outward, and bearing them back into the innermost closets of the body. The which also comes to pass by unseasonable use of sharp and vehement purges. For thereby of simple Quartans, Double, Treble and Continual are generated.

A Quartan-ague coming upon one that hath the Falling-sickness, cures the same, according to *Hypocrates* in the 70 *Aphorism* of the 5 Section, *Those that have Quartan-Agues are not much troubled with Convulsions: And if having first Convulsions, a Quartan-Ague follows, they are freed from their Convulsions.* Now the reason which *Galen* in his Comment gives hereof, is because the thick matter which caused Convulsion, is by the long heat of this Ague, attenuated and digested. Also by the shaking of the body in the cold fits, the said humor is more easily ejected. We must also add, That the evil humors lurking in the brain and other parts, as also in the veins, is transferred to the *Hypochondria* and more ignoble parts, where the Melancholy Quartanary humors are seated, and so leaves the parts aforesaid.

A Bloody-flux coming upon a Quartan-ague, tends to health, according to *Hypocrates*, in the 48 *Aphorism* of the sixth Section, *To such as are Splenetick a Dysentery is good.* Now in a Quartan-ague, commonly the Spleen is misaffected, and a melancholy humor is common to a Quartan-ague, and a misaffected Spleen: but this must be understood of a short Dysentery, for a long one is wont to be mortal; as we have it in the 43 *Aphorism* of the said Section, *Such as being troubled with the Spleen have a Flux of the Belly with pain; if it turn into a long Dysentery or Bloody-flux, they fall either into a Dropsie, or a Lientery, and die.*

To bleed at the Nose in a Quartan-ague is a very bad sign; Because the humor which causes a Quartan is too thick and too cold to be voided that way; and because such bleeding is symptomatical; and if it continue, will breed a Dropsie; it must presently be stopped by opening the *Basilica Vein*, out of which the putrid blood may flow, because the pure blood comes from the Nose.

CURE.] The Quartan-ague hath a double cure according to the two kinds thereof. For the remedies used in a bastard Quartan, must be far different from those which are used in a legitimate one.

And that we may begin with a legitimate Quartan, we must presently set our selves to vanquish the cause thereof, not regarding the Feaver. And seeing the cause thereof is an Humor cold and dry, thick and earthly, we must use Medicaments that do heat, moisten and attenuate. Also the peccant humor must be at seasonable times evacuated, which notwithstanding will require a long time to do, because of the extream contumacy of the humor, and length of the disease. But before these Medicines be used, we must appoint the Patient a convenient diet. Let the Patient therefore use meats of good juice, easie to digest, of thin substance, and moderately heating and moistening; as flesh of young Animals and Mountain-Birds, new Eggs soft boiled, Fishes that are taken in stony Rivers. In the state of the disease we may allow the Patient salt-fish, Capers and Olives. *Galen* i. ad *Glauco*. grants likewise Pepper and Mustard. Among Herbs, Borrage is commended, and Bugloss, Pimpernel and Spinach, Fennel and Parsly-roots, but especially Turneps, which must be first boiled in Water, and afterwards in fat Broth, which is very good for such as have the Quartan. *Crato* in his Counsels collected by *Scholtzius*, brags that he had cured many of the Quartan-ague by the second broth of Turneps seasoned with butter and sugar. Of Fruits, Apples, and stewed Prunes, Raisins of the Sun, fat Figs, Al-

monds, Dates, Pine-kernels are good. And finally, to spice their Meats, let them use Cinnamon, Nutmeg and Saffron.

Let the Patient abstain from Meats which are thick of substance and clammy, and are long in passing through; such as the flesh of Swine, Beef, Deer, Hares and Water-fowl, from Pease and Beans, Coleworts, coarse Branny bread, Cheese, Nuts, Walnuts and Chestnuts; from flesh much salted, or dried in the Smoak; from fruits, raw Herbs, from Vinegar, Verjuice, because they are thought, as all other sour things, to ferment Melancholy, and make it work.

Let their drink be small Ale or Beer of moderate strength, and meanly hopped, neither new nor hard, pure and well clarified White-wine or Claret that is not strong, with Water in which the Bark of Tamarisk or the leaves of Agrimony have been steeped, or a decoction of *Sarsaparilla*, or Barley-water that hath steel quenched in it.

Let them eat sparingly, no more than may barely preserve strength; for too large feeding breeds crudities, which makes the disease of long continuance. But above all, they must be very sparing in drinking, because nothing makes this disease more rebellious and hard to cure than over-much drink, and moist things, for they fill and swell the Spleen. *Crato* forbids all use of drink in the fit, which to forbear doth much, as he says, help the cure. On the fit-day, the Patient must eat six hours before the fit comes. And afterward nothing must be taken till the fit be over. Long sleep is good, because it moistens, but it must be forborn in the beginning of the fit. On the days of Intermision light exercise before meat is good; or in place thereof, frictions of the whole body, after the Patient hath been at Stool. If the Patient be costive, a Clister or Suppository must be given. Finally, let the Patient be as cheerful as may be, and avoid sadness.

The Patients diet being thus ordered; first a gentle Purgation must be administered by a Clister, and a purging Medicament. The Clister may be thus made:

Take Roots of Bugloss two ounces; of the four Emollient Herbs, Mercury and Beets, of each one handful; fat Damask Prunes five pair; of the four larger cold seeds and Annis-seeds, of each two drams; Epithymum three drams. Boil all to a pint and an half: in the strained Liquor dissolve *Catholicum* one ounce; Oyl of Violets and Chamamel, of each one ounce and an half; red Sugar one ounce. Make of all a Clister, which must be given the day before the following Potion, as a seasonable time.

Take Senna half an ounce; Annis-seed a dram; Leaves of Borrage and Fumitory, of each one handful; Liquoris three drams. Boil all to three ounces: in the strained Liquor dissolve Manna and syrup of Roses, of each one ounce. Make all into a Potion.

Galen in 1. *ad Glauco*. ch. 11. bids us give only gentle and benign Medicaments in the beginning of this Ague, otherwise, it is to be feared, that if we use stronger Medicaments, of a simple Quartan we shall make a double, a triple, or a continual Fever.

After the first Purge aforesaid, Blood must be drawn from the *Basilica Vena* of the left arm. Yet, if the Liver be affected, it may be drawn from the right arm. And their opinion is ridiculous, who say that we must expect concoction before we be let Blood, because then the blood will be more thin and apt to flow: for it is better digested and prepared, if first some quantity thereof be taken away. Neither must we give ear to them which say, That Blood-letting is not to be allowed of in a Quartan-ague, unless redundancy of blood do shew it self by the swelling of the Veins, and by other signs. For there is evermore at the beginning a *Pletthora ad Vires*, viz. Such a fulness of blood as the strength of the Patient cannot manage, unless a Quartan do follow some other long Fever. But that Precept of *Galen* formerly mentioned in 1. *Glauconem*, is worthy of all commendation, which says, that if the blood which first comes away be black and impure, that then the greater quantity is to be taken away: but if it be red and pure, little must be taken, and the Patient must not be let blood any more. The well days are fittest both for bleeding and purging. Yet some let blood upon the fit-day, five or six hours before the fit; which is not amiss, because the Humors beginning then to be moved, are more easily drawn out. *Zacutus Lusitanus* says, That it is very good to let blood when the Moon is in the Full. For then, by reason of the Moons influence, that earthly melancholick humor doth boil and become more fluid and apt to come away with bleeding. And he doth testify that many have by bleeding at that time been helped, and some perfectly cured, who could not by any other means receive help. But *Botallus*, contrary to the mind of *Galen* and all other Physicians doth aver, That frequent Blood-letting doth cure the Quartan-ague, yea, when it threatens a Dropsie; and he endeavours to confirm his opinion by reasons and examples. Which notwithstanding is to be rejected as a Paradox, seeing the refrigeration of the whole body caused by much bleeding, makes the Morbifick matter more thick and contumacious.

The Flux of the Hemorrhoids is very good in Quartan-agues, and many are thereby cured. For seeing the Hemorrhoid Veins are branches of the Meseraick Veins, in which the matter of this disease is contained, when they are opened, they evacuate the immediate causes of this disease. If there-fore

fore a Flux of the Hemorrhoids happen to such as have been accustomed thereunto, it must not be stopped. If it be too sparing, it must be furthered. As also if nature seem to encline that way (which is known by itching of the Fundament, and by some drops of blood coming that way) the blood must be made to come by application of Leeches.

But in such as have not been used to have their Hemorrhoid Veins opened, after bleeding in the arm, it is good to let them bleed in the ankle vein; by which often-times the Ague ceases; or at least that bleeding, with other remedies, will hasten the cure; especially in Women whose Courses are stopt, or flow not sufficiently.

The opening of the Vein between the little Finger and the Ring finger, called *Vana Salvatella*, is approved by the Ancients, and many later Physicians, who said it cures the Quartan-ague. But very many others reject this conceit, as being founded upon no reason, because the foresaid Vein is a branch issuing from the arm-veins. Yet being commended by others with many Experiments, I conceive it ought not wholly to be neglected. Some hold, It ought to be opened in the Conjunction of the Moon with the Sun; others, when the Moon inclines two hours before the fit, at three several times, in three immediate succeeding fits, which in some persons happened very well.

After these first Evacuations, we must bend our study to concoct and prepare the Humors, with certain Juleps, compounded after this, or some such manner:

Take Roots of *Asparagus*, *Bruscus*, *Cichory*, *Bugloss* steeped in White-wine of each one ounce; Bark of *Tamarisk* half an ounce; Leaves of *Borrage*, *Bugloss*, *Ceterach*, *Maiden hair*, *Fumitory*, *German-dier*, *Ground-pine*, of each one handful; *Liquoris* one ounce; the three cordial flowers, of each one pugil. Boil all to a pint and an half. In the strained Liquor dissolve *Syrupus Eizintinus*, and Syrup of *Maiden-hair*, of each two ounces. Make thereof a Julep to be taken at four times, four mornings together, which must also be continued many days, for the matter being contumacious, requires long preparation. Or if the Patient be nice, and squeezey, Broths must be made of part of the aforesaid Simples, chusing such as are most grateful to the taste, whereunto, as also to the Juleps, Cream of Tartar may profitably be added.

With these preparative Medicaments, between whiles, Purgatives must be given; so that every third or fourth day the Patient must take a purge, with this caution, That as long as the matter is very crude, we use mild purgatives: and when concoction begins to go well forwards, we must then give such purges as are a little stronger. Now the materials for these purgations are very well known, so that we need not reckon them up.

It is sometimes good to prescribe an Apozem both purgative and preparative, for four or five Doses, that a good part of the morbid matter may be cleansed away. Which Apozem may be made of the materials of the foresaid Juleps, adding purgatives thereunto. But if the thickens and contumacy of the Humors, with the cold distemper of the bowels, do seem to threaten that the disease will be long, and bring a Dropsie, we must then fly to such Medicaments as do powerfully cut and divide the said Humors; of which this following Apozem may be compounded:

Take of the five opening Roots steeped in White wine, of each one ounce; *Enula Campana*, *Gentian*, *Aristolochia*, and *Asarum* roots, of each half an ounce; Leaves of *Germander*, *Agrimony*, *Hops*, *Borrage*, *Ceterach*, *Wormwood* and *Centaury*, of each one handful; *Liquoris* and Raisins stoned, of each one ounce; *Senna* one ounce and an half; *Epithymum* one ounce; *Agarick* newly Trochiscated three ounces; *Ginger* and *Cloves*, of each one dram. Boil all to a pint and an half. In the strained liquor dissolve Syrup of *Cichory* with *Rhubarb* five ounces; Troches of *Capers*, and salt of *Wormwood*, and of *Tamarisk*, of each one dram. Make of all an Apozem for five Doses to be taken in the morning.

In this Chronick and lasting disease, an obstinate perseverance is necessary, that the perpetual vicissitude of Medicines may concoct and purge away the cause thereof. For this is in a manner the only cause why many that have Quartan-agues remain uncured, because after the use of a few Medicines they grow weary, and wholly reject and disdain all the rest.

For a continual Use thereof, certain purgatives are always to be in a readiness. Which may be made in the form of a Magistral Syrup, or of Pills, or in any form.

A Magistral Syrup may be made of the materials of the Apozem aforesaid, adding a triple quantity of the purgative Ingredients.

Pills for frequent use may be thus compounded:

Take *Aloes* diligently steeped with the Juice of *Wormwood*, half an ounce; *Gum Ammoniack* dissolved in *Vinegar*, and afterward thickned, two drams: choice *Myrrh* a dram and an half: *Gummy Turbith* and *Agarick* newly made into cakes, of each two drams: *Diagridium* one dram: salt of *Wormwood* and *Tamarisk*, of each two scruples: *Saffron* half a scruple. With *Oxymel* simple, made all into a Mass of Pill-stuff. Let the Dose be half a dram, or two scruples, twice in a Week.

If the Patient be of an hot Constitution, these following Pills may be used.

Take Polipody of the Oak half an ounce; Roots of *Asarum*, and seeds of Broom, of each one dram: crystal of Tartar one dram and an half: Flowers of Bugloss and Borrage, of each half a pugil. Boyl all in a sufficient quantity of water; of the liquor strained and very well clarified, take half a pint: Juice of odoriferous apples very well clarified, four ounces. Infuse therein Senna one ounce: Turbith and Agarick, of each three drams: Mace, Cloves, Cinnamon and Epithymum, of each one dram. Let them digest together three days in Balneo Marie, then strain and press them out. And add yet of Extract of Aloes made with Endive and Sorrel water one ounce: Myrrh dissolved in Wine over the fire, and strained, two drams: Salt of Tartar one dram. Let all evaporate and thicken over a gentle fire, adding towards the conclusion of the Powders of Diarrhodon Abbatis, and Lætificans Galeni, of each one scruple: salt of Wormwood and Tamarisk, of each half a dram: Extract of Saffron half a scruple. Make a mass of Pill-stuff for the use aforesaid.

Also a purging-Medicament very familiar, and most easie to prepare, but very profitable, may be made of three ounces of the decoction of Wormwood, wherein two drams of Senna hath been infused, which must be taken now and then.

These purging-Medicines are wont to be given the day before the fit, because the Patients are then stronger than at other times. Yet many contend that they ought to be given before the fit, because the matter being agitated by the fit, is made more apt for Expulsion. This opinion they underprop with the authority of *Hypocrates* in his Book *de Affectionibus*, who would have a Medicine purging downwards to be given at the beginning of the fit. And although in *Galens* Judgment, that is none of *Hypocrates* his Writings, but of his Son-in-Law *Polypus*; yet they conceive it ought not therefore to be of no authority, seeing *Polypus* also was a very learned man, and frequent Experience confirms this opinion; as the said experience is set down by *Arculanus*, *Genitilus*, *Amatus Lusitanus*, and others, who have ordered that the purging Medicament should be given four hours before the fit. Which practice notwithstanding hath need of much wariness and prudence in the Physician, seeing the shaking-fit intercepts the evacuation, and in the ague-fit the humors are moved with a motion quite contrary to that wherewith the purge doth move them; by which means great disturbances may fall out in the patients body. Wherefore this course is not to be followed but in strong bodies.

The consent of Physicians is greater, and more general touching the giving of Vomits in the beginning of the Ague fits; because nature is at that time more prone to that kind of Evacuation. Neither is it to be doubted, That a Vomiting caused in the beginning of the fit, and at the same time often repeated, doth make the disease gentle and shorter. The materials of Vomitories are set down in our cure of a Tertian. But in a Quartan-ague, *Asarum* is preferred before the rest, one dram being given in powder, in White-wine, and three or four times repeated.

In the Intervals of purging, Clysters must frequently be given, which do accustom nature to expell the hurtful humors into the Guts, and do by little and little bring away some of the Morbifick matter contained in the Meseraick Veins.

The disease continuing (as for the most part it is long and lasting) we must sometimes rest and abstain from physick a month, or thereabouts, that nature in the mean time may gather strength, being wearied with continual use of Medicaments, and may set her self to concoct the Morbifick matter. And afterward we must return to our preparatives and purgatives.

Howbeit, in a long Ague, we must not always use the same Medicaments, lest Nature be overmuch used thereunto, and the patient become weary of them. Also because from more gentle aperitives and purgatives, we must pass on to such as are stronger, various sorts of purgatives have been already propounded. And these following aperitives besides the Apozems aforesaid, and the Juleps, may be used in the progress of the disease, when the signs of digestion begin to appear.

Take White-wine three pints; Enula Campanæ Roots three ounces: Bark of Caper-roots half an ounce: Tops of common Wormwood dried one ounce. Infuse them three days in Balneo Mariæ: Keep all together without straining, and give of this Wine to the Patient two or three ounces in the morning, two hours before meat. And these following pills may be used either alone, or with the said Wine:

Take Roots of Gentian two drams; round Birthwort-Roots one dram and an half; Mugwort one dram: Briony dried three drams; Myrrh and Saffron, of each one dram: *Asarum* Roots two drams: Aloes one ounce: With Oxymel of Squills make all into a mass of Pill stuff. Let a dram be given every day by themselves, or a little before the taking of the Wine aforesaid.

To these pills, Steel prepared may profitably be added, if the patient be able to walk after the taking of them. For the use of Steel in all Chronick feavers is very profitable, because it potently opens contumacious obstructions, which are wont to foster those diseases.

Or to open and strengthen at once, the following Electuary may profitably be prescribed :

Take Conserve of Elecampane roots, Conserve of Wormwood, and Maiden-hair, of each one ounce, Preserved Citron Peels half an ounce ; Confectio Alkermes three drams ; Prescribed Myrobalans, two : Powder of Diarrhodon Abbatiss two drams ; Salt of Wormwood and Tamarisk, of each one dram ; Saffron two scruples. With syrup of preserved Citrons, make all into an Opiate : of which let the Patient take the quantity of a Chesnut every morning two hours before meat. Or if in the morning the Patient take some other Medicine, then may the Electuary be taken two hours before supper.

To the same intent is commended as a most excellent Remedy, the Extract of Germander mixt with salt of Tamarisk made into Pills.

Add hereunto, Discussers and Diaphoreticks, which are very useful to discuss the reliques of the declining disease, when signs of concoction appear. For they do not only discuss the said reliques, but they do likewise correct that distemper which is bred by so long a disease, and amend the ill habit of the body, and strengthen the stomach, liver, and other bowels, weakened by the length of the disease. Among these Medicaments, Venice-Treacle challengeth the first place, being by older and later Physicians commended to this Use. It is given one hour before the fit, one dram in weight with Wine, or in a decoction of Germander. Or if its heat be feared, it may be given with a decoction of Egrimony, or with the Juice or Water of Plantane. This medicine must be repeated before divers fits one after another. It may also be given in the mornings for some days together on the well-days. But a little before the fit, it operates happily, because it hinders the encrease of cold, and doth more commodiously discuss the Humor, which is the cause of the fit, now beginning to work in the Veins, and by this means it diminisheth the fit ; and if the Morbifick matter be little, take it quite away. Here, notwithstanding, great caution is to be used, lest Treacle or other such hot Medicines should be given when the humors are yet crude, for they dissolve the putrid humors, from whence ariseth a confusion in the body, and an encrease of the Ague-fits ; so that a single Quartan comes to degenerate into a double and triple, yea, into a continual Feaver. As it happened to Euedemus the Peripatetick, as Galen relates in *Lib. de Pracog. ad Posth. cap. 2, & 3.* in whom a single Quartan, the Physicians of Rome having given him Treacle unseasonably, was changed into a triple. Howbeit, afterwards when the sign of concoction appeared, Galen gave him of the same Treacle, and cured him.

Among other Diaphoreticks, some commend the Roots of China and Sarsaparilla, whose first and second decoction being given twenty days together, doth sometimes cure contumacious Quartans. But they work more effectually, if with the Primary Decoction, Purgatives be mingled.

Other Remedies are also given before the fit, which are accounted specifical, and appropriate to this Ague, and being given towards the declination, they do very often keep back the fits, and cure the Quartan. The chief of this sort, are these which follow :

Take green Leaves of Plantane one handful ; Green-sorrel half a handful ; Vinegar and Treacle, of each three ounces. Distill them, and let the Patient take of the distilled Liquor three ounces half an hour before the Fit. Or,

Take Sugar-candy three drams ; Ginger two drams ; Camphire one dram. Make all into a Powder. Give one dram in warm water.

Ten grains of Saffron in Powder, given with White-wine before the fit, doth much weaken the same.

Seed of wild Rue given before the fit in White-wine, cures.

Heurnius assures us, That with the following Troches many have been cured, even in Winter, with once taking.

Take seeds of Rue, Parsley, Myrrh, and new Andromachus Treacle, of each one dram ; Opium half a scruple : Make all up into little Cakes or Troches. And let the Patient take one of those cakes in water before the fit. Narcoticks do indeed much abate the fits ; but unless the greatest part of the Morbifick humor have been before abated, and the Obstructions much lessened, they may do hurt, because they may retain the vicious humors in the body, and breed Obstructions, and other worse diseases. But given in a small quantity, and mingled with things which open and cut, as in these Troches, they can do less hurt.

Also to restrain the fit, gentle Purgers are profitably given an hour before it comes which do reveal the humors, more by solliciting and provoking Nature, than by purging. To which intent, such as these which follow are prescribed.

Take Senna, Polipody of the Oak, Thyme, Epithymum, of each one dram ; Borrage flowers a pugil. Make a decoction to three ounces. Give it an hour before the fit Or,

Take Senna three drams, Turbith one dram, Cinnamon half a dram, Saffron and Ginger, of each
ten

ten grains : Sugar, the weight of all the rest. Make of all a Powder, divide it into three parts. Give the Patient one part before the fit, in White-wine.

Quercetanus in his Dispensatory doth exceedingly commend *Camillus* his pills of *Sagapenum* ; of which he gives only one at the beginning of the fit for divers days together ; and a little after he anoints their Back-bone with a Liniment composed of Treacle, *Aqua vita*, Oyl of Bays, or of Spike. And two or three hours after the Pills are taken, he gives Broth with opening Roots, Borrage, Bugloss, Thyme, and an odoriferous apple boiled in it.

Now these anointings of the Back-bone are very good to mitigate the cold fit, and must often be used, although the foresaid Pills are not used. For they are frequently useful, when the Shaking-fits are vehement and importunate. And these anointings are made, not only with the aforesaid, but with very many other Medicaments ; as with Oyl of Dill, Chamomel, Orris, Costus, Rue, the Peppers and other hot things, with *Aqua vita*, Treacle, Cloves, Castoreum, Mustard-seed, Pepper, and other things mixed therewith. Now these Liniments are more effectual, if the Back-bone be anointed therewith by the fire-side, an hour before the coming of the fit ; and the sick party be presently thereupon conveyed to a hot bed, and hot Tiles sprinkled with odoriferous Wine, and wrapped in linnen clothes, be applied to the soles of the feet, and palms of the Patient's hands.

While the aforesaid Medicaments are used, a special care must be had of the Spleen : because that part is always affected in this Disease : and therefore those Medicaments which ordinarily are prescribed for obstruction of the Spleen, viz. Fomentations, Liniments and Plaisters, may be long used.

Yea verily, and sometimes a Bath of luke-warm Water, after many Evacuations, have been celebrated, is good, not only to mollifie the Spleen, but also to moisten the whole body, and to further the coction of the Morbifick matter. The Bath may be used on the days of intermission, giving diligent heed that it be no other than luke-warm. For if it should be hotter, it is to be feared lest the Humors being thereby dissolved, should run on a sudden into divers parts of the body, and breed dangerous Imposthumes.

Finally, such things as are wont to be laid to the Wrists, are not to be neglected, seeing Authors of good account do make some reckoning of them. For *Rondeletius* affirms, That he hath used this following Medicament, with great success.

Take leaves of Elder, Sage, Doves foot, Rue, of each half an handful ; Marigolds a third part : a handful of salt, and little Wine. Beat all together, and apply to the Wrists before the Fit. Crato applys the roots of Nettles being beaten and moistned, or steeped in Vinegar, to the arteries of the Wrists, and of the Feet. Sennertus relates, That a certain Citizen having had a Quartan-ague the whole Autumn and Winter, and at last being afflicted with most sharp pains in his left shoulder, by the perswasion of a certain Woman, he applied Crowfoot to his Wrist, which raised a Pus, and freed him both from his pain and Feaver.

A Bastard quartan is cured with the same Medicines in a manner, which have been propounded for the cure of a Tertian ; adding to the decoction of Juleps and Apozems, such things as do peculiarly regard Melancholy adust. Whereunto may be added all the more temperate, and less heating Medicaments, which have hitherto been propounded for a Legitimate Quartan.

In the beginning therefore it is good to use Borrage, Bugloss, Fumitory, Hops, Sorrel, Cichory, Ceterach, *Scolopendria*, Agrimony and Odoriferous apples : Whose decoctions, distilled Waters, and sometimes their clarified Juices, may be prescribed in the form of a Julep, and Apozeme or Magistral Syrup.

But in progress of the disease, it will be good to add unto the Simples aforesaid, the bark of *Caper* roots, of Tamarisk, *Enula Campana*, and Wormwood.

While the Patient useth these Preparatives, Purgatives are frequently to be interposed ; which are to be given the day before the fit, and to be repeated twice a Week. To which intent various forms may be prescribed. But for such as are Delicate, a Laxative Pilsan, *Syrupus de Pomis saporis*, or the broth of a Chicken qualified with Borrage, Bugloss, Pimpernel, and three drams or half an ounce of Senna, may profitably be given.

Blood-letting in the beginning must not be omitted, and so much quantity of blood must be taken away as shall correspond unto the quantity and quality of blood, and to the age and constitution of the Patient.

If the disease prove long, when the fervor of the blood is abated, Vomits profitably may be administered ; especially to such Patients as are troubled with Stomach-sickness and Vomiting in the beginning of their fits. Among Vomitories good for a Quartan, *Asarum* (as was said before) is the principal, being given to the quantity of a dram in white Wine, and divers times repeated, if the disease shall not after once or twice giving, be discussed.

*

Hereunto

Hereunto add Fomentations and Liniments applied to the parts under the short Ribs, to correct the evil disposition of the Bowels (which continually affords new matter for the Fits) and to soften and make thin the fast, settled and impacted Humors: which may be prescribed after this manner:

Take Roots of Marsh-mallows, of Lillies, of *Enula Campana*, Barks of *Caper-Roots*, and the middle rind of *Tamarisk*, of each one ounce; Leaves of *Mallows*, of *Marsh mallows*, of *Pellitory of the Wall*, of *Borrage*, *Bugloss*, *Pimpernel*, *Wormwood*, of each one handful; *Linseed* and *Parley seed* of each an ounce; Flowers of *Chamomel*, *Melilot* and *Dill* of each one pugil: make a Decoction in three parts of Water, and one of White-wine added towards the end. With which Decoction foment the *Hypochondria* twice a day, far from meals.

Take Oyntment of *Marsh-Mallows*, one ounce and an half; Oyl of *Lillies*, *Chamomel*, *Roses* and *Wormwood*, of each half an ounce: make all into a Liniment, which must be used after the Fomentation.

Or Oyls alone may profitably be applied to the same parts, laid on with Wool.

And finally, a Bath of warm Water either alone or with Emollient and qualifying things boyled therein, or of Barley and Almonds, as is usual, will be very convenient to cure this Disease. For it corrects the distemper of the Bowels, rectifies the heat and driness of black Choler, mollifies that which is hard, opens the passages and widens them, and digests crude Humors. Wherefore the frequent use thereof will be most convenient, using the caution before specified.

Now the operation thereof will be exceeding advanced, if preparative Medicaments and such as open obstructions be given to the Patient, upon entrance into the Bath. Among which the chief is a Decoction of *Wormwood* and *Enula Campana*, which is exceeding good to digest all contumacious humors, provided the over-great heat of the Bowels do not dissuade the use thereof. In which case it may be tempered by the mixture of other things fore-recited.

And while these things are doing, gentle Purgations must be repeated, as we advised before. And when the Disease doth indeed decline, those specified Medicaments propounded in the Legitimate Quartan, may here also be brought into use.

In the whole course of the Disease, we must be careful of the Breast, lest a Consumption betide the same, for the Humor offending in this Disease is of a corroding quality.

Chap. 6. Of Compounded or Complicated Feavers, and particularly of a Semi-Tertian.

DIFFERENCE, and CAUSES]

Galen in his Second Book *de Crisib.* cap. 7. and 9. and in his Second Book *de Differ. Feb.* cap. 7. and *Avicen. Fen.* 1. Lib. 4. Tract. 4. cap. 16. do propound many Compositions of Feavers: Namely, when putrid Feavers are compounded with non-putrid; as when an Hæctick is joined with a putrid; or of a putrid with a putrid, which is done many ways, viz. Either continual, with Feavers being complicated with continual, or intermittent with intermittent, or continual with intermittent.

The Composition of two continual Feavers, is a thing controverted among Authors, and a man shall hardly observe it in the course of his Practice.

An intermitting Feaver or Ague is complicated with another intermittent, either of the same kind or different; compound intermittents of the same kind are a double and triple Tertian, and a double or triple Quartan, which have been expounded in their proper places. Of several kinds are when a Tertian is compounded with a Quotidian or Quartan; which also is very rarely seen in Practice.

Intermittents are complicated with Continuals two ways, viz. An intermittent Tertian with a continual Quotidian, or a Quotidian intermittent with a continual Tertian. And each of these is termed a Semi-Tertian, constituting Species or sorts thereof.

Yet that is properly and truly a Semi-Tertian which is made of an intermitting Tertian, and a continual Quotidian; and consequently is caused from Choler putrifying without, and Flegm putrifying within the Vessels. By *Hypocrates* and *Galen* in 1. *Epidem.* it is named *Horrida*, or the shaking-Ague, because it causes the Patient to shake, not only at the first coming of the Fit, but in the whole course of the Disease, and especially in the beginning and augment, two fits being met and joyned in one, viz. Of the Tertian and Quotidian Ague, with many Reduplications, which are nothing else but unequal shaking and shivering motions, returning divers times in one and the same Ague-Fit, by reason of the mutual fight of the two Feavers; in which, if Flegm overcome, there will follow shiverings, and coldness of the extreame parts. And then again, when Choler doth van-

quish, the Body becomes warm, and the Feaver seems to tend towards the Vigor; when as Flegm again getting the better, they are again brought into a cold and shivering condition; and this Contention is wont to last till the Feaver comes to its height. Hence it is that those shaking-fits come only every other day, *viz.* When the fit of the Tertian Ague is upon the Patient, being joyned with the Quotidian.

But while the Quotidian alone is present, there is wont to be no shivering Fit. Yet we must take notice, That there are some Malignant Feavers, which without a commixtion of a Tertian and Quotidian, without that same fight of choler and flegm, do shake the Patient; in which the Shiverings come from sharp Vapors and malignant, which do arise out of the corrupt matter of malignant Feavers, and do beat upon and pull the sensitive parts, and nip or twitch them as it were.

Now this Semi-Tertian properly so called, is either exquisite, wherein an equal portion of putrifying choler and flegm is redundant, such as hath been now described; or it is a bastard Semi-Tertian, which is again twofold: For either it hath choler abounding, or Flegm. In the former there are more Symptoms of a Tertian; in the later of a Quotidian. And so if choler abound, the whole Feaver is more horrid, and sometimes it hath a shaking Fit accompanying the same; also it proves more fervent, and some portion of choler is voided forth by Vomit, Stool or Sweat. But when flegm prevails, a more vehement cold doth possess the extream parts of the Body, and there are few shiverings; and the Pulse is more and longer depressed, and the fit is longer before it grow towards its height, and remain in its consistency a long time; yet doth it cause no great thirst nor burning.

DIAGNOSTICK.] This Feaver is known by what hath been said thereof, being continual, and cold, with many reduplications, and very great Symptoms. Because it comes every other day with a shaking cold fit; but upon the even days it comes only with a coldness in the extream parts of the Body. The Urines are crude, thin, and without colour; sometimes troubled, with no Sediment, or that which bodes no good. The Pulse is frequent and unequal. The Differences are known by the signs of more or less of choler and flegm propounded.

PROGNOSTICK.] As for the Prognostick of this Feaver, it is a dangerous disease, and therein the Stomach and Nervous parts are very much affected. And it is attended with driness of the Tongue, Thirst, Swooning, Watching, and sometimes with Ravings, and dead sleeps. *Hypocrates* reckons it among acute Diseases because of the choler; and among Chronick diseases because of the Flegm, in *R. Epidem.* And *Avicenna* saith, That it lasts sometimes seven months, and sometimes ends in Chronick diseases, and an Hectick.

CURE.] The Cure of this Feaver is to be taken from what hath been formerly said of the Cure of a Tertian, and a Quotidian; and seeing it is continual, it must be handled with the same Method which was set down in the first Chapter of this Section, as common to all putrid continual Feavers. So that when choler chiefly bears sway, we must use most of those Simples which respect choler; and when as Flegm prevails, we must principally use such as do prepare and purge that Humour. And finally, when both Humors are equal, the Remedies proper to each must be used in equal proportion likewise.

SECT. III.

Of Pestilential Feavers.

The PREFACE.

ALL Authors (very near) who have writ of Feavers, do distinguish a Pestilential Feaver from a Malignant, and do treat of each of them severally in divers Chapters; so that by the name of a Pestilential Feaver they do understand the true Pestilence or Plague; and by a Malignant Feaver they mean that which is commonly called the spotted Feaver: or such a Feaver which though it be Epidemical and contagious, yet it is not so dangerous but that more live than die of it: where the true essence of the Plague consists in this, that more die thereof than recover. But for as much as these Feavers differ one from another only according to the greater or lesser degree of malignity, and must be cured with the same Medicaments; we thought it more convenient to include all these kind of Feavers in one Chapter, and to handle them all under the name of Pestilential Feavers. And consequently this last Section shall consist of two Chapters, the first of which shall treat of the Pestilential Feaver, and the latter of the Measles and small Pox. For seeing a Malignant Feaver does always attend them, all Authors do justly treat of them in this place.

Chap. I. Of a Pestilential Feaver.

THAT Feaver is termed Pestilential, which does afflict Nature not only by a bare distemper, or by heat arising from putrifaction, but also with a malignant and venomous quality. This is wont to be for the most part popular and epidemical; so that many are at the same time sick thereof: yet sometimes it is Sporadick or single, afflicting but here and there one, which arises from evil Humors that have attained a venomous quality.

It is likewise contagious, so that it may be caught not only by means of the common cause, viz. corruption of the air or diet; but also by conversing with those that are sick.

It is also commonly called a Malignant Feaver; whereas many diseases are termed malignant by reason of their evil and cruel symptoms in which no venomous quality is found, in which alone the essence of a Pestilential disease consists.

In what Feaver soever therefore, this same venomous quality is found, whether it be a Diary, an Hætick, or putrid Feaver, it is rightly termed Pestilential: although a Diary and Hætick are much controverted, touching which consult Authors.

Now this same venomous quality ariseth from the corruption of Humors, which consists not in a bare change of the temperament, or in ordinary putrifaction, such as is found in putrid Feavers; but in a destruction of the whole Nature and Essential substance of the same Humors. As Wine when it is turned an insipid tasteless liquor, is totally and essentially corrupted; but when it becomes Vinegar, it is said simply to purifie.

And a Pestilential Feaver differs from the Plague as a species or sort differs from the Genus or kind, because there may be a pestilence without a feaver, as Hypocrates hath taught us in his third Epidem in many places; as also Galen in his Exposition of the said Book, and in his ninth Book, de Medic. Facultatib. cap. de Terra Samia. And this is suitable to Reason; forasmuch as the venomous quality is not necessarily attended to putrifaction, which is the cause of a feaver. For that same venomous quality may be produced in the Humors, by a perfect corruption of their substance, and introduction of a new form, of which that venomous quality depends. And certain it is, that so oft as a new form is introduced, the former is corrupted; unto which mutations there are requisite preparatory alterations, but not putrifaction; so that Humors may undergo such a corruption without putrifaction; but because the humors of our body are very liable to putrifaction, they can rarely undergo so great a corruption, without the intervention of putrifaction likewise; wherefore those pestilences are very rare, which are not accompanied with a feaver: Yea verily, and by an intense, profound and sordid (as they are wont to say) putrifaction, such a corruption as that

Of the Plague is wont to be raised. So, many Feavers, which at first were not pestilential, if by the Ignorance of the Physician, or negligence, the disobedience of the sick, or the fierceness of external causes, they have been mis-handled, the putrifaction becoming more intense, they turn in the end to malignant and pestilential Feavers. And that corruption does often precede putrifaction that is collected from such as are infected with the Plague by contagion; in whom a malignant and venomous quality is first transfus'd, and therewith the Humors are corrupted, which corruption is followed by putrifaction, whence it comes to pass that such as have the Pestilence have sometimes no Feaver for the first days of their illness; but afterwards the Feaver begins to shew it self when putrifaction is bred: some such things we see in a part that is affected with a Gangrene, which is first corrupted and afterwards putrified.

CAUSES. A Pestilential Feaver is caused when the Humors being corrupted and having attained a venomous quality, do come to putrifie: And so it affects the Heart by those two means, viz. By a putrid heat and malignant quality.

Now this corruption of Humors, is not always after one sort, but sometimes it is more intense, and sometimes, it is less according to its divers degrees, the venomous quality arising therefrom is more or less pernicious; from whence proceeds the greater or less malignity of Feavers. And hence arose that common distinction of pestilential Feavers among Physicians, into a pestilential Feaver simply and properly so called, and into a malignant Feaver; calling that a pestilential Feaver properly so termed, wherein is the true Plague; having this peculiar note or character, that more die than live and recover; and calling that simply a malignant Feaver which being less pernicious, more live than die of it.

DIFFERENCES.

The Differences of a pestilential Feaver are taken either from the matter wherein that venomous quality is produced; or from the place wherein the said matter is contained; and so they follow the difference of putrid Feavers, which in respect of the matter of putrifying are divided into the Feaver *Synochus*, *Tertiana*, *Quartana* and *Quotidiana*, according as the matter putrifying is Blood, Choler, Melancholy, or Flegm. And in respect of the place wherein the Humors putrifie, they are divided into continual and intermittent: according as the aforesaid Humors are lodged within or without the V. ins; even so pestilential Feavers, some are termed *Synochi*, others *Tertians*, *Quartans* or *Quotidians*; some continual, others intermittent: although *Hypocrates* hath said in the 43. *Aphorism* of the 4. *Section*; That intermitting Feavers are void of danger however they intermit, which only is to be understood of such as are void of all Malignity; for we see almost every year (in our Country at least) Tertian intermittent Feavers, which being extremely malignant, do at the third or fourth fit kill the Patients; others which bring them into great danger, especially by the cruelty of the Symptomes.

There are other Differences of a Pestilential Feaver taken from the intenseness of their degree or Remission; namely, as some are greater, others lesser; some partake of greater malignity, some of lesser. They are said to be simply greater, or lesser, according as the putrifaction is greater or less, or as the preternatural heat arising therefrom, is more intense or remiss; more malignant or benign, according to the greater or less intention of the venomous quality. Hence it comes to pass, that sometimes a pestilent Feaver hath extream putrifaction and malignancy at the highest; and then it is wont to be most fierce, and therein in regard of the malignancy the vital faculty is exceedingly afflicted; and in regard of the extream putrifaction the other faculties are likewise hurt, and cruel Symptomes follow thereupon. But sometimes in this Feaver the putrifaction is very high, and the malignant quality remiss; and then the Feaver is troublesome by reason of the putrifaction; but the vital faculty is less afflicted; contrarily sometimes putrifaction is little, but the malignant quality intense: and then the Feaver in regard of putrifaction shews no such bad Symptomes, and seems remiss; yet the strength of the Patient is more than ordinarily weakened. For sometimes the putrifaction is so remiss that it is in a manner none at all; but the malignant quality is in a very high degree: and then we have a Feaver, which seems neither to the Patient nor by-standers any thing troublesome; but it seems at first sight mild, as mild can be, when as indeed and in truth it is very mortal: for when the malignant quality is encreased, the Patients strength is dejected, and the Heart wholly overwhelmed; and this kind of Feaver doth not commonly deceive the Patients and by-standers, but sometimes the Physicians themselves are thereby cheated; whiles there being no sign present either of crudity or pravity of Humors, the pulse being in a manner in its natural state, and the heat of the Body at first appearance seeming mild and gentle, it leads unto destruction. Some such thing is likewise wont to happen in the first difference, viz. When it is joined with the highest degree of Malignity: for putrifaction being by convenient Medicaments subdued, and the signs of recovery of appearing, death notwithstanding sometimes ensues by reason the malignant quality did remain uncorrected.

And finally, the differences of a pestilent Feaver are taken from its adjuncts, and they are very many

many and most evident, for there is no evil Symptom, nor kind of deadly disease which is not sometimes joined with this Feaver. The Symptoms are Head-ach, Watching, Ravings, Dead-sleeps, Thirst, Stomach-sickness and Vomiting, want of appetite, Swooning, Fainting, Hiccoughing, Unquietness, Loosness, Sweats and such like, which are common also to other kind of Feavers.

But there is one Symptom proper and peculiar to a pestilential Feaver, which doth not happen in other Feavers; viz. purple-speckles or spots on the whole body, but especially in the Loins, the breast and back, like unto flea-bitings for the most part; which the *Italian* Physicians name *Petiscula* or *Petechia*; and these feavers which have these Symptoms are commonly named *Purpurata* or *Petechiales*, purple or spotted feavers. For these purple spots do not appear in all pestilential feavers; but when they appear, they are a most certain sign of a pestilential feaver: Now we call them purple spots, because they are for the most part of a purple colour. Yet they are many times of a violet colour, green, bleuish or black, and then they are far worse, and do signify greater malignity. And although these spots are for the most part like flea-bitings: yet they appear somewhat greater: so as to represent those black and blew marks which remain after whipping, and then they are worse. And sometimes they are very large, and possess whole Members and a great part of the body, viz. The Arms, Thighs and Back, and then the parts appear tainted with redness, which in few hours oftentimes vanisheth away, and then returns again, as it were by fits, whilst the feaver undergoes its fits or Exacerbations, wherein the blood boiling doth send forth its thinner Exhalations to the surface of the skin, by which the skin is not swelled, but only infected with a red colour. Oftentimes notwithstanding, by these Ebullitions the skin is in divers parts puffed up with a certain redness, and makes certain broad and soft tumors in the skin, which in a few hours vanish away, and are commonly called Ebullitions of the blood. In these and the aforesaid, there is always some malignity, but so light, that it threatens no danger, unless in the progress of the disease it prove more intense. Now the spots aforesaid like flea-bitings do differ from those pusles which are wont also sometimes to appear in these feavers, and are mentioned by *Hippocrates* in *Epidemias*, which have an head, and are a kind of tumors, which come sometimes to Suppuration or Exulceration. But the purple spots, have (as was said) no eminence or head, and were unknown to the Ancients, being described only by latter Physicians of after-ages.

As to those diseases which are joined to a pestilential feaver, we may affirm what hath been said of the Symptoms, viz. that many deadly diseases are joined with these feavers: Namely, Phrenesies, Quinzies, Pleurisies, Inflammations of the Lungs, Inflammations of the Liver, bloody Fluxes, and very many more. But the chief diseases which shew themselves in a pestilential feaver, are two, viz. a pestilent Bubo and a Carbuncle, which declare the venomous quality to be in the highest degree, and are not found in the true pestilence, and are wont commonly to accompany the same: So that the common people call them by the very name of the pestilence.

The causes of pestilential feavers, are some internal, others external: and the internal are some immediate, others mediate.

The immediate cause of this disease, as we hinted before, is a corruption of the Humors, joined with putrifaction; from the corruption they acquire an evil and venomous quality; and from putrifaction the feaver is bred.

The mediate causes are a Plethory, Cacochymy and Obstructions. Now we understand such a Plethory, or fulness of Blood, not as distends the vessels, but such at least as the strength of the Patient cannot master, which not being regulated by nature, doth easily undergo corruption, and putrifaction. Now a Cacochymy, or abundance of evil Humors, is easily corrupted and putrified. Finally, Obstructions are apt to breed all kind of feavers; forasmuch as Humors being close shut up in an hot and moist place, wanting free transpiration, do easily putrifie. The internal mediate causes, are by Authors commonly called *Morbifus Apparatus*, a sickly disposition of the body; and the efficacy thereof is so great, that it alone is sometimes sufficient to produce a gentle pestilential feaver, such as is commonly called a malignant feaver simply, or a purple feaver, without the intervention of any external or common cause. For we oftentimes see, when the year is not pestilential, and there is no Epidemical sickness abroad, some persons through the evil conditions of their Humors, fall into such feavers which are accompanied with many Symptoms of malignancy; yea, and with purple spots.

Concerning the point of Obstruction, we must observe, that it doth necessarily concur as the principal cause in malignant feavers, which proceed from internal causes, and are not Epidemical; but that Epidemical feavers which proceed from a common cause, viz. a pestilent constitution of the air, or are gotten by contagion, have not necessarily any Obstructions for their cause. For the venomous quality is received only by breathing in the corrupt air, or only by infection from others, by which venomous quality the humors of the body, declining from their own proper nature, do of their own accord putrifie. For even as fruits that will not keep, and other things apt

to corrupt, though they have never so much freedom of the air, yet cannot be preserved from corruption; even so the Humors when they have conceived that pernicious quality, are apt to corruption; so that though there be no Obstruction present, they necessarily fall into putrefaction, and a feaver. Howbeit, putrefaction being by this means brought into the Humors, when nature doth no longer rule them, they are wont for the most part to breed Obstructions, whereby the feaver is augmented; so that in these feavers obstructions may concur, which though in the beginning they were not the cause of the feaver, yet they do follow the same, being cherished by the causes of the feaver, and being infected with pestilential Venom.

The External causes of pestilential feavers, are the six Non-natural things, which as they are necessary, so do they necessarily alter our Bodies; and when they are far departed from their Natural condition, they breed in us malignant and venomous qualities. Among these the air holds the chief place; which as it is a most common cause, so diseases that are common do for the most part proceed from some fault thereof.

Now the air becomes vicious and hurtful to men, for the most part, by a threefold means. First, If it be not blown through with wholesome winds. Secondly, If it be polluted with the Infection of putrid and stinking Exhalations. Thirdly, If by an excess or preposterous condition of the first qualities, it doth so alter men, that thereby evil and malignant putrefactions of the humors be ingendered.

The first is evident enough. For if the air be not blown through, and stirred with winds, it is easily corrupted. Whence *Hypocrates* in the 3. *Epidem.* describing a most grievous Pestilential constitution, saith, This year had no Winds.

And the second is most effectual and frequent, viz. When putrid, filthy, and malignant Vapors are mingled with the air, and do infect the same, which is wont to arise from divers things, viz. Lakes, Pools, Fish-ponds, and other quiet and still waters, or such as are full of mud, or wherein Flax or Hemp have been steeped. Or from the stink of Privies, Dung-hills, and nasty Allies. Or from the unburied bodies of such as have been slain in battel. Or out of Dens or Caves (wherein the air having been long shut up, hath gained a filthy putrefaction) being opened by an Earthquake, or some other casualty.

But the third Reason, which consists in the excess, inequality or preposterous condition of the first qualities, may happen divers ways, and especially when there is a great excess of heat and moisture. For those qualities when they are extraneous and adventitious, and increased above their natural condition, they are the principles of putrefactions. Hence a Southern wind lasting long in the Seasons of the year, according to *Hypocrates* in *Epidem.* was the principal cause of all pestilential Feavers there described.

But a dry constitution of the air, though in the opinion of *Hypocrates*, it is more wholesome than a moist; yet because all excess of qualities is hurtful to our nature, certain it is that a very dry constitution of the air, more than ordinary, doth produce pestilential Feavers; especially if it be joined with excessive heat. A clear example whereof we have in *Livy*, in the first Book of his History, *Decad. 4. viz.* How by over-great driness a Pestilence happened at Rome, because there had been little or no rain that year: neither was there scarcity of water from Heaven alone, but the Earth was scarce able to continue her Springs. Now this dry constitution doth therefore cause the pestilence, because the humors being above measure burnt and dried up, degenerate into the matter of Biles, Carbuncles, and consequently of a pestilential feaver; and being very much thickened, they produce grievous obstructions: whereby in a matter otherwise well disposed thereunto, malignant putrefaction is easily bred. Add hereunto, that this immoderate driness of the air, doth corrupt the Corn, hindring it from attaining its due maturity. For it brings the Corn sooner out of the Earth, and it gives it at first plentiful nourishment, and afterward scanty, whereby the Corn is unequally digested, being burnt without, but within quite raw; like flesh scorched with an over-violent fire: and so it proves a cause of indigestion, and divers crudities.

It is proved also from *Hypocrates*, That immoderate cold doth produce a pestilence, 1. *Epidem. Sect. 3. Tempest. 1.* where he saith, In the Country of Thasus, a little before the appearance of *Arcturus* (a Star or Constellation) and whilst he appears, the North wind blowing, there are many and great Rains. In which places he fetches the causes of a pestilential season, from over-great coldness. Also we may read in *Livy*, *Lib. 5. Decad. 1.* That a pestilential season was caused by vehement cold, in these words: The year was remarkable for a cold and snowy Winter, so that the Ways were stopped up, and the River Tyber was unavigable. So find a Winter was followed by a grievous and Pestilential Summer, Mortal to all kind of living creatures; whether by reason occasioned by the sudden change of the air from one extrem to another, or by some other means. And the reason of this accident is at hand, viz. That by reason the pores of the skin are closed up by the extrem cold, so that the Vapors cannot stream forth so as naturally they should, there follows the greater putrefaction, and more grievous poison; whereupon follows more dangerous

ous Feavers, than in the Summer, in which the condition of the air, although in some sorts it gives beginning to the disease, yet doth it make the pores and passages wider; through which that which is putrified does exhale, and the natural and preternatural evaporations do readily breathe out.

Inequality of the Season is wont also to be the cause of this kind of Feavers; viz. when it is sometimes hot, sometimes cold; sometimes wet, sometimes dry, in a short time; or when these various seasons do endure longer one after another. As when after long vehement hot weather, a freezing cold claps in; or after long rains, an extream drought steals upon us, or contrariwise. Or when after a preposterous fashion, it is hot in Winter, and cold in Summer. Now these inequalities of Seasons may help the production of pestilential Feavers; because in them, the humors are exceedingly disturbed, by which means they arrive unto an evil condition, far from their natural state, and fit to produce malignant diseases, especially in those bodies which during the course of the Seasons aforesaid, by disorderly course of diet and living, have contracted either a Plethory, a Cacochy-my, or some notable obstructions.

To this kind of causes may be added the malignant Influence of the Constellations, which by changing the air, are wont diversly to affect the bodies of living Creatures. Such they say are the Conjunction of the superior Planets, *Saturn*, *Jupiter* and *Mars*, in Humane Signs, such as *Virgo* and *Gemini*, and especially when *Mars* is Lord. Which do bring diseases no otherwise than by change of the air, so far as to corrupt the nature and substance thereof. And that change is wrought two ways: and is by the manifest qualities, as when by the Influence of the Stars the air is so long and so far changed by excess of the first qualities of Heat, Moisture, Cold and Driness, that at length its proper substance becomes vitiated. The other is by occult qualities, when by the secret power of the Stars, without any notable excess of the first qualities, the substance of the air is so changed, that it receives a certain degree of corruption contrary to our life. Touching the first, no man doubts, seeing it is clear by common consent of Philosophers, that inferior bodies are governed by the Heavenly Constellations. And as the alterations of the air, which happen in the four Seasons of the year, do arise from the yearly motion of the Sun: so the great diversity of years, whereby one proves very moist, another exceeding dry, the Sun holding every year the same course of the Zodiack, can depend on nothing but the various aspects of Constellations. The other way because it is occult, is not so freely granted by all. Howbeit by common consent of Astrologers, it is held for certain, that the Stars do act upon inferior Bodies in a threefold manner, viz. by their Motion, Light, and Influence. The light and heat do alter these Sublunary Bodies according to the first qualities, and especially Heat. But the Influences do induce both the first qualities, (for example, the cold which *Saturn* causes, cannot depend upon his Motion nor his Light) and also the hidden and occult ones. For seeing Pestilential diseases do oftentimes happen, no great mutation being made in the air in regard of the first qualities; but when they rage, the air appears exceeding pure, and purer sometimes than it is wont to do when there is no pestilence stirring; neither have very hot and moist seasons preceded, from which great putrifications are wont to arise; it is to be conjectured, that these pestilential diseases do arise from some malignant influence of the Stars. Add hereunto, that pestilences are wont to rage even in the depth of Winter, which no remarkable alteration of the first qualities hath preceded. For in such a case these diseases are to be attributed to the hidden power of the Stars, which have (as Astrologers teach) a power of corrupting the air, no extraordinary mutation of the first qualities being made therein. And this is that divine principle in diseases, which *Hypocrates* acknowledged, and according to the Exposition of *Galen* is in the air, but is produced by the Cœlestial Bodies and hidden causes. It is also hinted at by the same *Hypocrates*, in the second *Epidem. Sect. 1.* when he says, *The time and the diseases do answer one another, unless some innovation happen in the superior Powers.*

Neither does that hinder which is brought as the opinion of *Plato* out of his *Epinomis*, that the course of the Heavens and Heavenly Bodies have always good influence here below, and from them nothing but preservation and benefit flow. And *Aristotle* in the ninth of his *Metaphysics*, Chap. 10, says, that in those Bodies which are eternal and æthereal, neither error nor corruption is found. And *Averroes* says in his first *De Cælo*, Cap. 24. The Heavenly Bodies do contain the Elements, preserve them, and universally are unto them instead of a form, whence it's collected, they cannot infect them with a poysonous and malignant quality. Add hereunto, that if pestilential diseases should be raised by influence of the Stars, they would at one and the same time infect the whole World almost, seeing those influxes are universal causes, and by the Circulation of the Heavenly Bodies do affect all the quarters of the World. But these diseases do peculiarly invade some one Region only. And finally, if the Stars

Stars were said to be malefick and of an evil disposition, God the Author of them would be accounted the cause of mischief, which is full of Impiety. These Objections, I say, do not a whit prejudice the truth propounded, which may thus be answered. All created substances are considered two ways; either as they are things in being and do concur to the compleating and perfection of the Universe, and in that respect they are all good; for *to be*, and *to be good*, are one and the same; neither hath the High God blessed for ever, created any thing which ought to be termed evil, simply considered, or as they are considered in regard of their operations; and then they may be termed evil, forasmuch as they may damnifie some other things by reason of the antipathy and inbred enmity of nature. And although almost innumerable contrarieties of nature are found in the world, yet must they all be termed good in respect to God their Maker, and in regard of the Universe, whose perfection consists chiefly in variety. Furthermore, the operations of things created, may be termed evil two ways, absolutely, or simply considered in themselves, or in respect of somewhat else; they are absolutely evil, when at all times, in all places and upon all occasions they do perpetually evil; and in this sense no Creature can be found which is evil; in respect of some other thing, the operations of things may be termed evil, when they hurt one, and do another good; and so there is nothing in the whole Universe so hurtful, but that it hath some other ways its uses and benefits for which it was created; so all poysons, although most hurtful to men or other animals, yet conveniently used they do a great deal of good to them. And in the art of Physick there is scarce so deadly a poyson found, but that out of it, by skill of art, an healthy medicine may be drawn. And finally, the actions of Stars upon these inferior Bodies are considered two ways, either in respect of the whole sublunary world, containing the Elements, and all mixed things; and so the action of the Heaven and Stars is simple, benign, ingendering, conserving, vivifying all things; and doing all other good offices which tend to uphold the Universe; and in this sense most true it is, that these inferior bodies are cherished and sustained by the influence of the Heaven and Heavenly Bodies; or they are considered in respect of the proper nature of this or that Element, or this or that living creature; and then it is no absurdity to say that there are some influences hurtful to some Element or living Creature, in such or such a part so and so affected, which depends not of any fault of the Stars (for they are of a most perfect nature) but rather of the imperfection of sublunary things, which cannot suffer any considerable mutation without the corruption of their proper substance; now these divers natures and qualities of the Stars, produced in sublunary Bodies by their divers concurrence and influence, were ordained by the great architect of this Universe, for the conservation of the whole world, which being made up of so divers and so contrary natures, had need of as great variety in the influence of the Stars, that all things might be preserved, as it were in an even balance. Out of which diversity of influences notwithstanding, it could hardly come to pass but that some parcel of things so different should sometimes suffer, not in any whole kind or sort (which should tend to the destruction of the Universe) but only in some individuals that were less able to resist, and for the most part misaffected, and only in some part of the air more disposed to receive malignant influence. From whence we may conclude, that those corruptions do chiefly depend upon the defect of the sublunary Bodies: Forasmuch as many places are in the world, where the air is so perfectly constituted, and the inhabitants so evenly tempered, that let never so malignant Influences of Stars showr upon them, yet are they never infected with the pestilence.

To the same kind of causes must we refer the defects and Eclipses of the Sun and Moon, unusual Meteors, and especially Blazing-Stars, which are never wont to appear but that Epidemical and Pestilential sicknesses, and divers changes in the World do follow, as is confirmed by the experiments of many Histories; whence that usually cited Verse of *Claudian* is become as a Proverb.

In Caelo nunquam Spectatam impune Cometam.

A blazing Star does not appear,
But some Beholders plagued are.

A most evident witness whereof was that hairy Comet which appeared, Anno 1618, towards the East on the 27th of November, and was afterwards seen near upon the whole Month of December, moving and shining. Its thicker and more solid part being turned towards the Sun, did behold the East, and did far exceed *Venus*, both in the clearness of its shining, and in its largeness, thickly compacted and conglobated together. The remaining part being more thin, and less enlightened by the Sun, because of its thinness, did move like a fairly spread beard, and stretched towards the West. This Comet first appeared under the sign of *Libra*, near the *Equinoctial Line*; but by a private and peculiar motion of its own, it was carried from thence, through the feet of *Virgo*, the middle of *Bootes*, and the Tail of the greater *Bear*. And at length, its light decreasing by little and little, and the matter whereof it consisted being dissipated, it vanished between the great *Bear* and the *Dragon*.

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It was carried with the common motion of the Stars from East to West, but it seemed to be moved somewhat swifter than the Stars, for in the first days of its apparition, it was wont to rise a little before five in the morning; and afterwards it rose about four a clock and before four, and so sooner and sooner, till it prevented the midnight and bed-time: and we have reason to believe, that this Comet was the prognostick and forerunner of malignant and pestilential diseases, and also of those Wars, wherewith whole *Europe* in a manner hath since that time been laid wast.

And although the air be chief among the mediate causes of malignant and pestilential feavers; yet sure enough other non-natural things do concur to their Generation, as I shall particularly and briefly declare.

The next to air are aliments, because bad diet causeth a sickly disposition of the body, which is an internal efficient, and *causa sine qua non*, of malignant and pestilential feavers. Whereupon *Galen* in his Book *De cibis boni & mali succi*, and in the 1. *de Differ. Feb. cap. 3.* does demonstrate, that from bad and corrupt diet pestilential diseases do arise. Now meats are said to be evil, and the causes of those diseases in many respects.

And in the first place, when the fruits of the earth and trees, by reason of a bad constitution of the year, *viz.* Over-moist or over dry, or corrupted by mists, or some tempestuous weather, or some malignant influence of the Stars do, being eaten, produce bad juices in the body.

Secondly, When there is great famine and scarcity of corn: From whence came that Proverb, *Ho loimos meta limon*, the plague follows famine. For then the poor common people are forced to fill their bellies with such meats as are cheap and bad, whence arises abundance of bad Humors: and which is much worse, when a plenty presently follows famine, they do then suddenly cram themselves with much meat, which by the languishing heat of the internal parts cannot be well digested, and thereupon those meats come to participate of a malignant putrifaction.

Thirdly, When aliments, which in their own nature are good, do by some way or other, gain putrifaction or some evil quality, such are wheat, barley, beans and pease, and other kind of grain, which being either over-long kept, or ill laid up in a moist place, or otherwise misaffected, do come to be musty, or have some other putractive quality: such is flesh over-long kept, or stinking, or such as is of beasts that were not killed, but died of some disease: as *Julius Obsequens* relates, that in the Isle called *Lipara* when the Sea was made hot with the Fires which by means of an Earthquake were forcibly vomited out of the Mount of *Aetna*, and had boiled the Fishes, casting them upon the shore: the Inhabitants eating greedily of those Fishes, a sore pestilence followed.

Neither is there power in drinks, when putrid and corrupted Wines, Beer or other Liquors are drunk: or when water is drunk out of putrid and muddy Lakes, or otherways infected; as good Histories do testify that numerous Armies have been destroyed by pestilential diseases, with drinking such waters.

These non-natural things mentioned, *viz.* air, and meats, and drinks, have the greatest force to engender malignant feavers. But the four remaining *viz.* things voided or retained, motion and rest, sleep and waking, with passions of the mind, are of less efficacy, and do only concur as adjuvant causes, or such as dispose the body to conceive a malignant putrifaction; as in our exposition of them shall presently appear.

The retention of courses in women, or of some other accustomed Evacuation in Men, as of the Hemorrhoids, Bleeding at Nose and Loosness, which betides some persons at certain seasons; when they happen in a pestilential year, they are wont to produce a malignant disease. For those things which are wont to be avoided as superfluous and burdensome to nature, if they be retained in the body, they do easily conceive putrifaction. So likewise over great Evacuations either of blood or other Humors, do much weaken the body, and do cause that natural heat being weakened, it is soon infected by the vicious and pestilential impurities of the air.

As for motion and rest, certain it is, that over-much idleness is a cause, that natural heat is not sufficiently Eventilated, and consequently the Humors conceive putrifaction: so over-great exercise does very much open the pores, and dissolves the heat; whereupon the body becoming weak and more apt to take impression, does easily receive the infection.

And too much sleep makes many excrements, and fills the body with Humidities, which easily putrifie; but too much watching does engender crudities, and they easily putrifie, because natural heat cannot well master them: and because by them many obstructions are caused, by which transpiration is prohibited, and at length putrifaction engendred.

And finally, passions of the mind are wont vehemently to exagitate the body, and to disturb the Humors; and so they much dispose the body to receive infection, and especially fear and sadness, which drawing the vital spirits inward, do as it were choak and smother them whereby the vigor of the heart is so broken, that it cannot sufficiently resist the venom and first assaults of pestilential sicknesses; yea verily and the Humors being stirred in the veins, and vehemently disturbed, are thrust out of their natural constitution, and do conceive a malignant putrifaction. Inasmuch that

some

Some have conceived, that pestilential diseases are bred in Camps, and at Sieges of Towns, not so much through bad diet, and stink of dead carcases, as through terror, fear, anxiety and dread of death, which do exagitate the humors, and put them into a tumultuary combustion and fluctuation.

The signs of a pestilential feaver do some of them foretell the disease when it is coming; others declare it to be present; and others witness where it has been. All which must be set down, because the first tend to preservation, the second to cure, and the third sort to be a caveat to such as are not yet infected.

The signs which foreshow a pestilential Feaver, are taken from three things, *viz.* From the disposition of the body, from the presence of causes, and from some intermediate dispositions. Those bodies are disposed to receive pestilential infection, which have collected evil juices through bad diet, and by a preposterous use of the six non-natural things aforesaid, Or such as being plethorick do gorge themselves and inordinately and unseasonably replenish themselves. Furthermore, some that are neither plethorick nor cacochemical, do dispose their bodies to the reception of this disease, while they torment their minds with most troublesome passions, or give themselves immoderately to carnal imbracements; for from these two causes, the pestilential feaver is very ordinarily produced, forasmuch as by them corruption is easily introduced even amongst good humors. For passions of the mind do distract and draw away the spirits from their proper operations; and overmuch carnal imbracement does weaken all the powers of the body; but the spirits being distracted, and the virtues weakened, the humors change their nature, and grow corrupt.

Finally, those whose principal members are weak, or some ways tainted, either from the womb, or by bad diet, or any other external cause; which have an hot and moist temperature; which have a very thin or very compacted habit of body, are all disposed to pestilential feavers, for hot and moist bodies are subject to putrefaction, thin bodies are liable to all injuries, compacted constitutions have no free transpiration.

The presence of such causes as can breed a pestilential feaver do portend the same: and consequently ill seasons and unnatural temper of the year, dearth and scarcity of Victuals, Wars and other causes, reckoned up before, when they appear, they declare the Plague to be approaching.

Those intermediate dispositions are, when such a disposition of body and the causes aforesaid being present, we see a man more sad than ordinary, an unexplicable fear in him without good ground or cause, the colour of the face changed, is not rightly disposed in point of diet: is disturbed with bad dreams; infected with weariness which comes without labour, thirst, watchings, stomach-sickness; it is easily conjectured, that man will have the pestilence: for all these things do declare that the humors do attain another nature, and do corrupt, from whence comes a pestilential feaver.

Such things as declare the Pestilence to be present, are exactly to be propounded, and therefore all the heads of signs must be run over, out of which this disease may be known, which heads of signs are taken from the three kinds of symptoms, because the symptoms are the effects of Diseases, and causes can no way so conveniently be known as by their effects. And therefore some signs are taken from the actions hurt, some from Excrements voided, and others from qualities changed, unto which head a fourth must be added, taken from supervenient infirmities. To the right understanding of which these things following must be premised.

First, We must know that the same signs in a manner do shew a pestilential feaver properly so called, and a feaver simply malignant; and that the signs of the one and the other do differ only according to more or less; so that in the pestilential feaver the symptoms are more, and in the malignant feavers less; yet there are some adjuncts more proper to the one than the other, which we shall declare in their proper place.

Secondly, We must note, that there is no true, proper and pathognomonick sign of these feavers, *viz.* Such an one as wherever that sign is, there is the pestilence; and where that sign is not, there is no pestilence; no, not the Bubo or swelling in the Groin, nor the Carbuncle; seeing that many have them not, though they have the plague; and many have Bubbles and Carbuncles that have no malignity in them: neither are those purple spots any such pathognomonick sign, although a malignant feaver is from them termed the spotted-feaver, forasmuch as many have a malignant feaver without any such spots, and those spots do sometimes appear on women that want their courses, and in some children by reason of a light ebullition of blood, without any feaver, which I have often seen in both. Howbeit by a concurrency and collection of all signs and tokens, these feavers may certainly be known.

Thirdly, We must mark, that all the signs which shall be propounded, are not found in all such persons of these feavers, but only a part of them, which notwithstanding will be sufficient punctually to discover the kind of the disease. For according to the variety of Patients Bodies and

and the intention or remission of the disease, now these kind of Symptoms, and anon those, do chiefly shew themselves.

Finally, it must be known, that the signs of a pestilential and malignant Fever, (although they are also found in other Fevers) yet are made in some sort pathognomonic in this Fever in a two-fold respect. First, Because in these Fevers, they are so conditioned as in other Fevers they are not. For the Head-ach, Illness of the stomach, Vomiting, the manner of the heat and other signs, when they accompany pestilential Fevers, they have a peculiar Malignant condition whereby they differ from themselves when they accompany other ordinary Fevers; which is well known to them that are but indifferently exercised in the practice of Physick. Secondly, because the Symptoms do not observe the same proportion among themselves in these Fevers, which they do in ordinary ones. So that the heat being gentle to the touch, the pulse not much changed, do shew a small Fever: yet with them is joyned mighty Head-ach, watchings and sometimes ravings, and other Symptoms which are wont to accompany a burning Fever. These things being thus premised, we shall describe the order of signs, beginning from the action hindered.

Because therefore the Heart is chiefly afflicted in these diseases, by the malignant and venomous quality thereof, therefore its action, *viz.* The pulse, is diversly changed, according to the variety of times and the divers condition of the disease. For sometimes at the first, it is in a manner natural, and very like the pulse of persons in health, as *Galen* shews in the 3. de presag. cap 4. but in the progress and augmentation of the disease, it is little, weak and unequal. Also the frequentness of the pulse is always more than the increase of heat can require, because the Heart being provoked by the malignant quality, doth in that regard disturb it self more than the necessity of eventilation doth require. Likewise the signs of this Fever are,

Cardialgia. Heart burning or pain of the mouth of the stomach, which *Hippocrates* condemns as a sign of malignity. 1. Progn. in these words, pain of the mouth of the stomach, with distention of the Hypochondria and Head-ach, are signs of Malignity.

Sometimes great thirst, exceeding the measure of the patients heat and sometimes want of thirst, with a vehement Fever, and dryness of the the Tongue, for both are signs of Malignity.

Great want of appetite, which makes many abhor all kinds of meat, as much as if they were the most loathsome Medicines. Now this is wont to arise from malignant Vapors which vex the stomach.

Stomach sickness and vomiting arising from the same cause, especially when it happens in the beginning of the disease, and is so divers that some presently vomit what they Eat; others vomit as soon as they have taken broth, but they vomit not the broth which they took, but divers kinds of humors; some keep any kind of meat, but vomit their Drinks, Juleps, Emulsions and whatever drinking matter is given them, presently; great thirst notwithstanding remaining, with dryness and blackness of the Tongue.

A frequent and inordinate shivering, which comes divers times in a day, springing from sharp and biting exhalations of an adverse quality to our natures, which are carried unto the sensitive parts: which kind of shivering does rarely happen in other putrid Fevers, because the vapors in them have not the like malignity. In malignant intermitting Tertians, sometimes a sign of malignity is taken from the shaking and the cold. For it sometimes happens, that in the beginning of the fit, with a light coldness or shivering, the heat doth so much retire inward, that the Flesh of the Patient is very cold and the face is like that of a dead person, and the pulse so little as if it did not beat at all. After which follows an heat, which neither in the augment nor in the state, doth to the touch feel great or sharp; yea and the flesh of the patient is either lukewarm to feel to, or coldish, even to the declination. The pulse, when the heat comes, doth more appear, yet it is small, unequal, frequent and very weak: and many other Symptoms of a pestilential Fever are present, which may sufficiently prove, that there are intermitting malignant Fevers as well as continual; as was hinted before.

Wearyness of the whole Body, heaviness, and a breaking as it were of the members appear in the beginning of the disease, by reason of the foresaid vapors, dispersed through the whole Body.

Pains of the head, watchings and ravings, which all come from the same causes, *viz.* from sharp and venomous vapors; which when they lodge themselves in the Membranes of the Brain, they cause head-ach, and in as much as they heat and dry the very substance of the brain; if the alteration be but small, they cause watchings, if great they cause ravings. And to these Symptoms, besides heat and dryness, the venomous quality contributes much, because in the vulgar Fevers such Symptoms do not happen, unless the distemper be much more than ordinary. And pains in this Fever, have a peculiar property to be very diverse, and to shift places. For sometimes only the fore part of the head, other whiles the hinder part, now the forehead, anon the eyebrows are cut asunder as it were with pain, & sometimes other parts, as the Shoulder-blades, the Sides, the back, &c.

Sometimes it is fixed in one part, otherwhiles it changeth place and vexes this, now that part of the Body.

In some Patients drowfie and sleepy dispositions happen, viz. in such as have their brains full of Flegmatick Excrements: which Flegmatick Excrements are dissolved by hot vapors ascending from the inferior parts, and do hinder the functions of the Brain.

The Urin in these pestilential Feavers, is sometimes like the Urin of sound persons, namely, when the humors do more offend through a Malignant quality, than by putrefaction; and sometimes it continues so for the first days; afterwards it becomes thick and troubled. Sometimes in the state of the disease, it appears concoct, though the sick are in a perishing condition. Sometimes it is thin and crude, having no sediment, or such a sediment as is more like an excrement than a sediment. But most commonly it appears thick and troubled, and of an high colour; and hath thick, red, disturbed and scattered sediment. And finally, all evil dispositions of Urines, do happen in this disease, according to divers alterations of the putrifying and corrupted humors.

Chollerick Fluxes of the Belly, which either come of themselves, or through some like occasions by some gentle Clyster or Medicament; which bring many to their end. So *Hypocrates* relates in 3. Epidem. in a pestilential Constitution there described, that many died of the Loosness and bloody-flux: For the humors being made more furious by the Malignant quality which is in them, do exceedingly provoke nature, so that she endeavours to drive them out the nearest way: Now in these Stools, there is wont to be a mighty stink, by reason of the exream corruption of the humors.

An abundance of Worms is wont to be voided in this disease, especially at the beginning: For the great Putrefaction doth very much dispose the humors to breed Worms.

Frequent sweats, small, short and unprofitable, do break forth in the beginning of the disease.

The heat is mild and gentle to feel to, so that they scarce seem to have a Fever: Whereupon *Galen 9. Simp. cap. de Bolo Armen. & Avic. Feb. 4. lib. 1. cap. de Febre Pestilenti* does teach that pestilential Feavers have oft-times a mild and gentle heat; and the reason is, because these diseases are rather caused by a Malignant and Venomous quality, than of an ordinary distemper and putrefaction.

Redness of the Eyes is often seen in Pestilential Feavers, because the Membranes of the Brain are in a sort inflamed by sharp Vapors ascending into the Head, which they easily communicate to the *Tunica adnasa*, or Skin of the Eyes so called, which is propagated from the same Membranes.

Finally, Purple-spots like Flea-bitings, called by latter Physitians *Peticule* or *Petechie*, are the proper and peculiar signs of a Malignant Fever. For they are found in no other kind of Fever; forasmuch as they do arise from a vitious quality of the Blood or other humors, joyned with malignity. Yet there do appear in other diseases, spots very like unto those aforesaid, but springing from a far different cause, viz. From the over-thinness of the blood, which being exagitated by the heat or expulsive faculty, does sprout forth of the Capillary veins into the Skin. These spots are wont for the most part to appear in such as have some Flux of blood, because the blood in such is more thin and watery: and also in Splenetick persons, in such as have the jaundice and old obstructions of the bowels, and (in a word) in all such, who by reason of the weakness of their bowels, do breed watry blood, and are apt to fall into a Cachexy. For in such persons, the blood being made thinner than ordinary, sometimes flows out at the Nose, sometimes at some other part, and sometimes it comes out of the Capillary veins into the Skin; where being retained, it loseth its own colour, and becomes either blewish or black or light red, and causes great variety of spots; which notwithstanding are very far different from the spots of pestilential Feavers, and do argue nothing but the watry thinness of the Blood and weakness of the Liver. Now those spots which come out in pestilential Feavers do arise from humors putrefying and infected with an evil quality. Furthermore, those spots do break out sometimes Critically, and sometimes Symptomatically. Critically, when as Nature having either in part or in whole overcome the putrefaction and corrected the bad quality, does drive the corrupt humor to the external parts; And then the disease is evermore abated. Symptomatically when that nature pricked forward by the quantity or evil quality of the Morbifick matter does transmit a portion thereof unto the Skin, before it be concocted, or the evil quality thereof amended. And from thence the Patient receives no ease, but rather, Nature having unprofitably wrestled with the disease, it is a token rather that she is conquered than conquers.

The Colours of these spots are divers and do shew the diversity of the Humors by which they are bred. For the red spots are bred of the purer sort of blood, and the black from the chollerick blood more or less adust. As for the store of these spots, sometimes they appear in greater numbers and sometimes in less. They begin to appear sometimes on the fourth, fifth, seventh or ninth, or some other critical day, if their coming out portend any good; sometimes on other days, when there

is little good to be hoped for thereby. Sometimes they are seen in all parts of the body, but most frequently in the Loins, Breast and Neck.

Now the Diseases, which come upon a pestilential Fever, for the most part are something coming out like a Pox, called *Exanthemata*; Pushes, and Ulcers of the Mouth, Carbuncles, Risings in the Groyn, and behind the Ears.

The *Exanthemata* aforesaid, differ from the Purple-spots, because in the spots there is only the colour changed, but here is a certain rising in these *Exanthemata* to an head. Sometimes they are like Warts, and sometimes less, resembling Millet-feed. Sometimes they are red, being caused by blood, sometimes white, proceeding of flegm or Serosities; yellow from Choller, purple from adust Choller; blewish or black, by reason of great burning Mortification. Some break out Symptomatically, others Critically, others in a middle way. Some dry away, others come to Matter, others grow to be Ulcerous.

To these may be referred pushes appearing in the mouth, which have all differences of the aforesaid *Exanthemata*; and are sometimes so malignant, that the sick can hardly endure to eat and drink. In Children they often cause Death, because they will not endure the pain of eating and drinking. These pushes do sometimes degenerate into Ulcers, which breed very great trouble to the patients, hindering the motion of their tongue, and especially their swallowing.

But sometimes Ulcers are bred in the mouth immediately, without any pustules or pushes foregoing, which the *Greeks* call *Apthæ*; of which there are many secrets. For some are superficial, others profound; some clean, others foul; some benign, others malignant; some with a Crust, others without. And the Crust is sometimes white, sometimes yellow, sometimes blewish or black. Those which are deep, filthy and malignant, and that have a black Crust, are the most dangerous.

Carbuncles and Buboes, are wont to rise in divers parts of the body, but especially where the Glandules are; because the expulsive faculty, being provoked by a malignant quality, does expell the pernicious matter from the internal parts, especially the more noble ones to the external; so that from the Brain she sends it to the Glandules, or kernels behind the ears; from the Heart, to the Arm-pits; from the Liver to the Groyns; whence swellings under the Ears, called *Parotides*, and those in the Groyn, called *Bubones*, do arise. Which kinds of Tumors do chiefly appear in a true pestilential Fever, especially those in the Groyn, which therefore the common people call the Pest, or Plague. But Carbuncles and *Parotides*, or risings behind the Ears, do also break out in malignant Fevers, but in such as are at the top of malignity, and come very near the nature of true Pestilential Fevers.

Signs commemorative are chiefly in request, when Physicians are called to view the Corps of the dead, at such times as there is a plague abroad, or some suspicion thereof, that it may be known whether the party died of the plague or not.

And first of all, in such dead bodies there do sometimes appear those spots of which we spake before, and sometimes marks or stripes, as it were after whipping: for these are the tokens of a pestilential disease, and venomous, seeing those that are poisoned have also these signs. And those spots do especially denote the pestilence, when they are of a lead colour, or black. Also those *Exanthemata* spoken of before, do shew the same, especially if they have a bad colour; but much more the Buboes, *Parotides* and Carbuncles, whereunto may be added such things as have appeared in the Course of the disease; for the re-counting of them will make a certain demonstration.

The prognostick of pestilential Fevers is so uncertain, that nothing can be certainly affirmed, touching their event, until certain tokens appear, either that Nature or the Disease hath gotten victory; which is not wont to happen, unless about the end of the state, or the beginning of the Declination. Where the discreet Physician ought to delay and suspend his Judgment, touching the Issue of the disease in the beginning and the Augment.

We must nevertheless propound the chief tokens, out of which we may draw a great Conjecture, whether the disease will end in Death or Health, by help whereof we may foresee, what is to be hoped or feared, yet not being overconfident; so experience hath taught us, that many have escaped with most mortal signs; and others have perished under all the tokens of recovery. But we shall pass over all such prognostick signs, which are common to all acute diseases, of which *Hypocrates* hath discoursed largely in his Prognosticks, Coicks, Predictions, Prothreticks and Epidemics, and likewise in his Aphorisms, which may have a place likewise in this disease. But we will propound only such as are proper in a special manner to pestilential Fevers, from which a more certain Prediction may be drawn.

Now these may be drawn from the same Fountains, from whence we drew the Diagnosticks.

First therefore, in these Fevers, if the pulse keep a Tenor and equality, be the Fever never so great, it gives always some matter of hopes. Contrarily an inordinate, unequal and contracted pulse, is dangerous, especially if it appear weak from the beginning. But those differences of pulses are not so dangerous in malignant Fevers, as in ordinary ones. For although an intermit-

ting pulse in a young man, be so deadly a sign, that *Galen* testifies, though he had seen many old folks and children escape, having an intermitting pulse, but never any young man yet in malignant Fevers, I have known not a few young men, which had an intermitting pulse divers days, and yet escaped. Pulses, like those of persons in Health, are very dangerous: for they signifie that Nature out of weakness abstains from the Concoction of Humors. For where by an evil and pernicious quality, the strength is exceedingly weakned, Nature being weak, does not set her self to digest the matter, not meddling with the humor which hath caused the Disease: so that no endeavour of coction being used, no labour follows, and there is either no Fever, or a very little one. We have an example hereof in external Tumors, in which so long as the part is almost overwhelmed by the plenty or ill condition of the matter, there is neither pain nor Fever; but when as Nature begins to fight against the matter, and to turn it into quittor, then the Fever is much encreased. Even so in Malignant Fevers, the patients seem sometimes freed from their Fever; whereas they grow worse, and draw towards death: as we may see *Hypocrates*, 3. Epidem. Sect. Ægr. 2. Where *Hermocrates* from the twentieth day, to the twenty-fourth seemed to have no Fever, and yet on the twenty-sixth day he dyed;

Raving is very common in this Fever; neither is it to be feared, if it be lessened by sleep, and especially if it vanish away with a plentiful sweat, for 'tis a sign that the matter is drawn from the brain into the habit of the body. But a persevering dotage is pernicious, because it's a token that it degenerates into a true Phrenzy.

The contractions and hoppings of the Members, which do often happen in this Fever, are Convulsive motions, and very pernicious, and that the more if joyned with raving, for they signifie the brain to be extremely hurt.

Trembling motions of the hands and tongue, are wont to be deadly, and are by *Hypocrates* much condemned in the first Prognost. For they shew great weakness, and that Nature is overcome by the Disease.

Deafness, though in the beginnings of occult Diseases, it being exceeding dangerous, according to the Doctrine of *Hypocrates*; yet if it appear in the State of a Disease, it portends health, especially in Malignant Fevers. And I have observed a thousand times, that such as being sick of pestilential Fevers, were taken deaf in the State of the Disease, did all escape, though the other Symptoms were never so dangerous; for it is a token that the brain, being sufficiently strong, does thrust the Humors from the internal, to the external parts.

Sneezing, according to *Hypocrates*, even in deadly diseases (provided the Lungs be in good case) does give hope of recovery. But in Malignant Fevers, be Symptoms otherwise never so dangerous, they promise recovery.

Frequent Heart-burnings or Hiccoughs, do portend danger, and signifie that the Stomach is grievously afflicted by the venomous quality.

Extreme avernsness to meat is very dangerous, for it signifies the Stomach to be mastered by the malignant quality of the humor, and that its temper is wholly overthrown, so that it refuseth and abominates laudable nourishment, which is most familiarly affected in time of Health.

Suppression of all Evacuations in the beginning and augment of the Disease, is counted a good sign. For it shews that the Morbifick matter is not so malignant, as to provoke Nature to excretion before the due time; but that Nature does yet conquer, and will in due time expel the matter, provided there be no sign that the Humor will settle in the Head, Belly, or any principal part. But in the State of the Disease, for nothing to be evacuated, but for worser signs to appear in some principal Members, is bad. For it's a sign the Disease will either last long, or give little hope of life. For the matter which in divers days could not be overcome, does bring some great damage to the same member, as a Phrenzy, Lethargy, and others, which arise after the eleventh or fourteenth day, which can very hardly be cured by all Medicines imaginable.

Blood that is drawn by Phlebotomy, if it appear no ways faulty, but pure, and according to Nature, 'tis a dangerous token. For it is a plain argument, that there is more of a venomous quality, than of putrefaction; or that putrefaction may lurk in the Veins next the Heart, which cannot be drawn away by Phlebotomy.

From Urines in a Pestilential Fever, there is scarce any, or a very uncertain prediction to be made. For not only the confused, troubled, thinner and thicker Urines are bad, as in other Fevers: but also that Urine which is like the Urine of a healthy person. Yea verily, and many have died, after the Urines have shewed signs of Concoction, and then became crude again.

Howbeit, Concocted Urines, and which have a laudable *Encorema* continuing many days, and daily more uniting it self, and descending by little and little into the bottom of the Urinal, doth perpetually promise certain recovery, even in Malignant Fevers. For it cannot be, that a lusty and strong natural Faculty, which discovers it self plainly in these Urines, should not rise against the Malignant quality, and at length overcome the same. And therefore I have oftentimes with great

great confidence foretold a good event from the signs of Concoction, persevering in the Urines, in such as have had Malignant Fevers, attended with most grievous Symptoms, so that all the bystanders were in great fear of their lives.

A Fat and Oily Urine, black or livid, with a black or bleuish settling, doth certainly betoken death.

Very much Urine being made, and no abatement of the Fever thereupon, is dangerous, because it signifies a melting of the body.

Sweats in this Fever, although they come well-conditioned, and in the Critical day, do seldom perfectly judge the Disease. And sometimes the Fever is abated by sweat on the first day; and then the Symptoms grow high, and after many Sweats the patient dies. For plentiful Sweats, not diminishing the Disease, do arise from the melting of the whole body. Neither must we therefore believe, that Critical Sweats do never any good in these Fevers. For by how much less Venom there is in the Disease, they do so much the more good; as it happens in ordinary Fevers. And we find by Observation, that 'tis far the better for the patients to Sweat often at the beginning of the Disease (provided they be not worse after their Sweats) for 'tis a sign that Nature doth attenuate the matter by little and little, and expell the same by sweat.

Loosness of the Belly is a very uncertain sign. For oftentimes a Loosness at the beginning of the Disease hath been good, which yet experience shews, is sometimes a deadly token. Again, after some Costion, we have seen the patient killed by a Loosness, and sometimes by the same recovered; Yet we must thus distinguish. When a venomous quality hath the mastery, the more the matter goes away by Stool at the beginning of the Disease, the less danger. But when the Disease arises most part from putrefaction of the Humors, they are worse that are looser at the beginning of the Disease.

Purple spots, when they are many and large, and of a benign colour, and break out Critically, they foretel that Nature will Conquer. But if they be few, small, and of a bad colour and are Symptomatically put forth, they signify that Nature is worsted. And further, If they go in again, it's the worst sign of all; for it shews the Morbifick matters reflux into the inward parts.

Exanthemata, or wheals appearing in divers parts of the body; are effects of greater malignity than purple spots, and consequently portend greater danger.

Carbuncles and Buboës, or risings in the Groyn, and some other parts, do witness greatest malignity, and threaten most danger: seeing they are wont to follow those Fevers, whose peculiar Character it is, that more die of them than recover.

Carbuncles and Buboës, by how much they are further from the heart, grow faster, and come quicker to ripen, by so much the less dangerous are they. But if Tumors encrease suddenly with bad Symptoms 'tis ill. Carbuncles very great, of a filthy colour, with an eating Ulcer, or which turn into a Gangrene, are deadly; as also those which are near the heart, or rise upon the Throat. Experience hath taught, that many Carbuncles are more dangerous than few; and contrarily many Buboës, or other risings are more safe than few. *Parotides* (or risings behind the Ears) in malignant and purple Fevers, are in the Augment and state deadly. But if they appear when the Disease doth never so little decline and come to Suppuration, they are a good token.

CURE.

The Cure of a pestilential Fever is divided into two parts. The first contains the preservation of those that have it not; The second contains the healing of those that have it.

The preservation from the Pest consists chiefly in taking away of those Causes which make bodies fit to receive the Pestilence, and breed it in them. And they are Internal or External; the Internal are a Disposition of the body apt thereto, a Plethory, a Cacochymy and Obstructions. The External are especially, a vitiated Air, and a wandring Contagion. Bodies disposed to this Disease, are such as either naturally or accidentally, are more moist than they ought to be; Weak, Lax, and Rare, dense and compact. Moist bodies must be dried; dry must be preserved in that temper; the former must avoid full Diet, much drinking, and all moist nourishments; such as are especially fruits that will not keep Herbs, Fishes, Meats made of Milk; the South-air, such as comes from Lakes, and especially the air of the night, idleness, long sleep, especially sleeping after Dinners, Bathings, and whatever else can moisten the body.

Let weak bodies be strengthened with a restorative diet, and with strengthening Medicaments. Those of a rare, lax, and thin constitution, need the same ways of prevention with the moist. But the dense and compacted constitution, because it is most of all disposed to a pestilential Disease, must more carefully be freed from a Plethory, Cacochymy, and from obstruction; which causes, seeing in all bodies they may breed this kind of Fever, as Internal Causes, we must perpetually study their removal.

A Plethory requires Phlebotomy provided nothing do advise the contrary, as a very cold, or not season of the year, and a Pestilential Constitution of the air, in which a Vein must not be opened,

ned, unless a *Plethora ad vasa* do manifestly urge the same; or some usual Evacuations of Blood by Courses, Hemorrhoids, or Nose-bleeding, have been stopped. For the blood being exhaust, the Air which is breathed in, will more easily imprint its pestilential quality; and in case the Disease happen, the patient will the hardlier escape; for being weakened by blood-letting, even as they who drink poyson after blood-letting, it penetrates the more, and they are with more difficulty recovered. Also when we fear poyson, we let not the patient blood, so *Galen Lib. 7. de diff. Feb. Cap. 4.* Where he propounds a preservation from a pestilential Fever, he prescribes indeed purgation, and opening of obstructions; but he makes no mention of Phlebotomy.

To Cacochymy we must oppose purging, such as is proper for the humours offending, convenient preparation being premised, if it seem necessary: with this caution, that benign Medicaments be only used, abstaining from such as have a malignant and deadly quality, with which it will be good to mix some Bezoarticks, and such things as are Alexipharmical.

Obstructions are caused by the multitude of humors, their thickness and clamminess. The multitude will be helped by such things as evacuate, the thickness by such as attenuate; the clamminess by things that are absterfive or cleansing.

In respect of External Causes, Precaution must be made first by correcting the excesses of the air; viz. by cooling that which is too hot, as we taught in continual Fevers; by drying that which is over moist, with Fires both in Streets and in private Houses, and that as much as may be, made with sweet Woods, as Juniper, Bayes, Rosemary, and such like. Secondly, By removing all the Causes above recited, which do infect the air. Thirdly, By consuming and dissipating the infections in the air; which may be done by kindling of fires, as we said in correcting the moisture of the air, and the perfumes of sweet-smelling and Alexipharmical materials. Also by vehement agitation of the air, to which end the frequent discharging of great Guns will be very effectual.

But if the air shall be very much infected, so as therefrom a Fever truly pestilential shall arise, the best kind of preservative is to change the air, and they that are forced to continue, or to converse in places infected, and among the sick, have need of many other cautions, and they must often use Antidotes. All which are at large set down by such Authors as have treated expressly of the Plague, and from thence the Reader must fetch them; because my design is but briefly to touch such things as are requisite to the Cure of the true Pestilence; because few Physicians of any note dare hazard themselves in the Cure of the true Plague: And contrarily seeing both in *England* and in *France*, and whole *Europe* over, all Physicians in a manner have employed themselves in the Cure of Spotted and Malignant Fevers; I have thought it most worth my pains to direct this Cure to that kind of pestilential Fever, which is simply called Malignant, and the Spotted or purple Fever. Yet so that it may serve for the Cure of the true Plague; seeing as we said at the beginning, the same Medicines, and the same Indications will serve for both.

The Cure therefore of those which are actually sick, must be directed unto the Fever, the putrefaction, and the malignant quality. The Fever must be opposed with coolers and moistners, the putrefaction, with Evacuators and Alterers. The Malignant quality with Antidotes. All which intentions must be satisfied by a threefold Medicinal Means, after the manner following.

The same Diet must be appointed in this Fever, which was appointed in the continual Fevers. Only this one thing must be observed, that sharp things must be oftner used in Drinks and Broths, as being very fit to resist putrefaction and the malignant quality. Also touching drink, this must be observed, that the use of Wine and strong Drink is sometimes good in this Fever, because they (and especially Wine) are very cordial, and contrary to the Malignant quality. Yet many times they do much heat, and encrease the heat of the Fever. Wherefore the prudence of a Physician, is in this case very necessary, that he may contemplate the Nature of the Disease and constitution of the patient: for by this means he shall know whether the use of Wine or strong Drink be safe or no. For if the Fevers be very small, but the venomous quality very intense, and the body of the patient abound with slegm; Wine well allaiied with Water, may be safely given, and to good purpose. But on the other side, in an high Fever, and a Chollerick constitution, to give wine and strong drink is pernicious. This I have learned by a multitude of experiments, and especially in the year 1623, when the purple-Fever was rise at *Montpelier* after the City had been besieged. Which Fever was so Malignant, that a third part at least of those which had it, dyed; and it differed from the true Plague, only in the point of a Bubo: forasmuch as not only whelks and *Exanthemata*, Red, Blewish and Black, but also Carbuncles and Swellings behind the Ears did often appear: For so such sick persons whose pulse was not very quick, and like the pulse of a sound person, their

Tongue

tongue moist, & they without thirst, I have given wine with good success; and I was enclined to continue the use thereof, by reason of the good the patients found thereby, and because by the use thereof the Fever was not at all augmented, neither did any thirst or dryness of the Tongue arise thereby; But in such whose Fever was more strong with thirst, dryness, roughness or blackness of the Tongue, I wholly forbade Wine, and kept them perpetually to the use of cooling and tart drinks. But it is to be remembered that in the first days of the disease Wine must never be given, lest the crude matter be too much agitated, but only about the state, when the signs of Malignity do begin more and more to shew themselves. Howbeit *Zacutus Lusitanus* in the 93. Obs. Lib. 1. of his wonderful Cures and Cases, relates that in a pestilential Fever, the patient being extream thirsty, with a dry and black Tongue and past hope, he gave Wine with a most happy success, so that the patient was cured therewith alone. But here that saying of *Cornelius Celsus* is to the purpose, Those which Reason could not, have many times been cured with *Rashness*.

Diet being ordered, the Cure must be begun by Blood-letting, a Clyster being premised: for bleeding is very convenient, both in regard of the greatness of the Disease, the hot distemper and the putrefaction. But in defining the quantity of blood which is to be taken away, prudence is necessary, when in regard of the Malignant quality, it does no good but hurt; for thereby the vital faculty is exceeding weakned, and those which are let blood after being poisoned, are hastned to their Death. Therefore if a malignant and venomous quality be more than the putrefaction, which may easily be known by the proper signs aforesaid, little blood must be taken away; but if putrefaction be more considerable than the venomous quality, blood must be taken in a greater quantity. And consequently, if by reason of a sickly Constitution of body, and of Putrid humors contained in the Veins, the malignant Fever hath been produced chiefly; blood-letting may safely be repeated, once twice or thrice until the burthen of vitious humors contained in the Veins be discharged; and that especially if Inflammation of any of the Bowels be feared, which many times happen in Malignant Fevers. Now bleeding must be used betimes and at the beginning of the Disease, for if the Disease shall have taken progress and the malignity be diffused into the whole Mass of Blood; bleeding does not only no good, but very much weakens nature; so that very many Authors hold, that blood must not be let after the fourth day is past. And truly, forasmuch as malignant Fevers do at several times differ much one from another, in regard of the different degree of Malignity, when they begin to be ripe once, diligent observation must be made, what good the patients receive by blood-letting. For some Fevers being of the kind of *Synochi*, in which there is great putrefaction and little malignity, are much lessened by phlebotomy. And others whose nature consists very near wholly in malignity do become more pernicious by blood-letting. This appears in the true Pest, in which by the experiment of many approved Authors, it is assured, that all which were let blood died. So *Wierus* relates in an Epidemical Catarrh which wandred all Europe over in the year 1580. in which all in a manner recovered, so that scarce one thousand died: yet all that were let blood died thereof. Now we must diligently observe that which *Galen* hath taught us in the 14. Method. Chap. 10. that in the Cure of Carbuncles it is good to take blood till the patient faint away, that the boyling blood which causes the Carbuncle may be plentifully evacuated. When as the same *Galen Lib. de Curat. per vene*, S. Cap. 14. commands, that in Phlegmonous Tumors blood be taken away, till the colour change, unless the patients be weak, or the Phlegmon malignant. Whereby is intimated, that *Galen* admits Copious Blood-letting in a simple Carbuncle that is void of malignity but not in a malignant and Pestilent one; which agrees to an hair with the former precept propounded by us.

As concerning the times and intervals of Blood-letting wherein it is to be iterated, this is to be noted: that if the disease proceed slowly, the Blood-lettings must not be hastened: for the Patients strength is too soon weakned; so that it cannot hold out, till the Morbifick matter be expelled. According therefore as the disease is moved, so the Physicians ought sooner or later to let the patients blood.

And there is a great Controversie, whether when purple-spots or wheals appear, phlebotomy is to be used. For some account it to be an hainous Crime to let blood when the *Exanthemata* appear, because at that time the humors are moved from the Centre to the Circumference, which motion must be by all means furthered; and by blood-letting the humors are put into a clean contrary motion, and the blood is drawn from the Circumference to the Centre, when as the inner parts being emptied, it must needs be that the blood contained in the outward parts, should run inwards again; which *Galen* plainly teacheth in his 9. *De Sanet. Tuend. Cap. 10 viz.* That the blood when a Vein is opened, does flow back from the whole bulk of the Body into the internal parts. And the same *Galen* in his Comment upon the 9. *Epidem.* does conjecture, that *Simon* of whom *Hypocrates* spake having broad pushes come out, had no good from his vomit, because such Juices were thereby to be evacuated, which took their course to the Skin. Howbeit, by the more sound Advice of Doctors it's concluded, that the Purple-spots appearing in the beginning of the Disease, and on those days

days in which a vein is wont to be opened, if blood were not sufficiently taken away before, it must even then be drawn in a moderate quantity; Neither is there any danger to be feared by so doing; seeing the same Eruption of the wheals, which comes in the beginning of the disease, is not critical but Symptomatical only, arising from an exceeding Ebullition of blood, and from the fervency of malignant and putrifying humors; and therefore the motion of nature cannot be hindered, when there is none to hinder. For in case the Patients body being Plethorick, the Urin thick and red, you shall not let blood because of the *Exanthemata* or wheals breaking forth; Nature will scarce be able to master such a quantity of humors, and it is to be feared lest they should rush into some internal part of the body and breed therein a pernicious Inflammation; Howbeit, blood at such a time must be sparingly taken away, not so as the veins may be emptied, which might cause a retraction of the evil humors inward again; but only so as to take away their over great abundance, which being taken away, the veins draw no new blood, but only fall a little together as it were and become a little loosened so as to purse themselves the better, and consequently to be the better able to rule the remaining blood. And so is the motion and expulsion of nature furthered which she endeavours toward the surface of the body, for she being eased of part of her load wherewith she was oppressed, does more easily cast off the remainder, and drive the same out. Which we do every where behold in our Practice, whiles the very same day oftentimes, in which a vein is opened, yea verily sometimes, a few hours after, plentiful sweats, critical and healthful do break forth. And in truth, though nature were so strong that she could sufficiently rule all the redundant blood, seeing that in Plethorick bodies the blood is wont to be thick and by these Eruptions into the Skin, the thinner part of the blood only is Evacuated, the thicker abiding in the veins does more and more putrifie, and makes the diseases much more dangerous. But I hold the most advised course to be, a little after the blood-letting, to fasten many Cupping-glasses, that the motion of the humors to the outward parts, may be hereby the more assisted: of the Administration of which Cupping-glasses we shall speak by and by. Now it must be diligently noted, as we said before, that we observe the time in which the *Exanthemata* do begin to appear. For if it be in the beginning of the disease, and before the fourth day, in which time their breaking forth cannot be critical, and no help comes to the Patient thereby; but the Symptoms do rather grow more vehement, in which regard blood-letting ought by no means to be hindered. But if they break forth after the fourth day and that in great quantity, so that the sick party is thereby bettered, and the Symptoms lessened; it is much better to abstain from blood-letting, and to fix many Cupping-glasses with Scarrification, that the motion of the humors outwards may thereby be well furthered.

What we have hitherto said of blood-letting, is to be understood of opening a vein in the Arm, which does quickly diminish the blood. Howbeit sometimes, 'tis very profitable to open the inferior veins, *viz.* If the Patient be weak, and cannot suffer reiteration of the former Phlebotomy. But this is especially good in Women; for it is as *Oribasius* says. Lib. 7. Chap. 10. proper to Women and very efficacious, because it imitates the manner of their natural Evacuations. Yea verily and when they want their courses that kind of bleeding is proper for Women, because naturally they have much blood in these Veins which are nigh the Womb. Also it is good for such, in whom we fear a translation of the matter into the brain, which is often wont to happen in these Feavers and to cause a Phrensie. Which may be perceived easily (as we said in the Prognostick) by the Urins thin, white, and void of Colour; and when the Urins are so, it will be very good to open the inferior veins. Also *Oribasius* relates in the forecited place that he was taken with a pestilential Feaver, and having two pound of blood drawn from his inferior veins, he recovered: and all that used the like bleeding, were recovered.

The opening of the Hemorrhoid veins by Horse-leeches works the same effect. For seeing by this means the blood is drawn out by little and little, there follows little abatement of strength. Yet is the blood revelled from the inmost bowels, where is wont to be heat and the matter which foment the disease. And this is special good for Melancholick persons, because in such, Nature is wont to Evacuate earthy blood, by these ways.

After sufficient blood-letting, Revulsions must be Celebrated by Cupping-glasses, both dry and with Scarrification. Dry ones, when we would only revel: but Scarrified ones when the redundancy of blood is not wholly taken away by blood-letting, which the Patients strength could no longer bear. For, blood is drawn by Cupping with much less expence of strength, and besides the venomous spirits lurking within, are thereby drawn to the Surface of the Body. But Authors agree not touching the places where Cupping-glasses are to be applied: for some and especially all *Italian* Physitians very neer do hold they ought to be applied to the inferior parts, *viz.* to the thighs and buttocks and no where else, that the venomous matter may be drawn from the heart to the most distant parts: but that they are not good to be fastened to the Shoulder-blades or the Back, because they draw hurtful Humors from other parts next the Heart. Others are of a contrary opinion, that Cupping-glasses are best to be applied to the Shoulders and Back, *viz.* that poysonous Humors and Vapors may be drawn from the Centre to the Circumference, which motion is most suitable to the Motion

motion of Nature in this Disease. But I am of opinion, that Cupping-Glasses should be fastned to each and every of the places aforesaid; and that it is good to set them first upon the lower parts, that some portion of malignity may be drawn back unto the more remote parts: but because the Glasses fixed in those parts cannot sufficiently draw back the venomous Humors and Vapors from the Heart, and its neighbouring-parts; it is good to fasten them likewise to such parts as are near the Heart, viz. To the Shoulders and Back. For by this means the motion of Nature is very much furthered; seeing that experience doth teach, that the eruption of the spots is commonly in those parts which by frequent fixing of Cups is much furthered. Which *Mercatus* hath most elegantly delivered in these words. *Howbeit in the mean time, while the body is plied with other Medicaments, small Cupping-Glasses must either many at once, or a few, frequently be applied. And if the venom of the Disease, or the weakness of the Patient be much, they may be fixed without any, or with very little Scarrification. In which kind of use, and upon that occasion, it is the best course to Scarrifie those which are set upon the back, over against the heart, which experience hath taught to be of such moment, that Anxieties and Inequality of the Pulse, and other grievous accidents have thereupon ceased. Therefore we must not cease applying of them, until the venomous accidents are mitigated, or wholly taken away.*

But the Reason urged by those of the former opinion, is of small moment, for the fear lest ill Humors should be drawn from other parts unto the heart. For this Reason might peradventure be of some force, if they should be used at the beginning of the Disease, the whole body being full of humors. But after an universal Evacuation sufficiently procured by blood-letting, they can cause no such danger; which is made manifest by a clear example drawn from a pleurisie; in whose beginning, if the pained side should be Cupt, doubtless it would bring the humors more and more to the grieved part. But when after often Blood-letting, a Cupping-Glass is fixed upon the pained side, it doth not only draw nothing from other parts to the place affected, but that humor which is fixed and wedged into the part, is thereby powerfully drawn out, so that oft-times the Disease is thereby perfectly cured. Although in this Disease, there is more danger of drawing humors to the part affected, because it is in a manner external, and near the Cupping-Glass.

Zacutus Lusitanus in *Observ. 13. Lib. 5. Praxeos admirandæ*, doth very much commend Cups with Scarrification, fastned near the Groins and Arm-pits. For by such Cupping-Glasses so fixed, the vicious humor is drawn to the ignoble parts, and to those common Emunctories unto which Nature is wont to expel the same.

Amongst Revulsive Remedies, Frictions may very well be reckoned, being often exercised upon the extreme parts of the body with a coarse Cloth. But that Friction is most commended, which is made upon the whole body, with the Liniment of *Actius*, which is thus compounded.

Take Oyl of sweet-Almonds and Fountain-water, of each three ounces: Sal Nitre, two drams: boyl them together till the water be consumed, and with this Oyl warmed, let the Patients body be rubbed all over with the hands being dipped therein. *Actius* doth prescribe Oyl of Savin, but because it is too hot, Oyl of sweet-Almonds was by *Baptista Montanus*, fitly substituted in its place. This Oyntment doth open the pores of the skin, that Nature may more fitly expel the venomous Vapors thereby.

Vesicatories do likewise powerfully draw out evil and venomous Juices, and serve for revulsion, being applied in divers parts of the body: Commonly they are applied to the hinder part of the Neck; for they both draw out the matter, and drive it from the head, and serve well to Cure such sleepy Symptoms as are usual in these Diseases. But where great malignity doth possess the whole body, and grievous Symptoms afflict the Patients, one Vesicatory will not suffice, but more must be laid on: I am wont when the Disease is very violent, to lay them on in five places, viz. The Neck, both the Arms on the inside, between the bending of the Arm and the Shoulder, and to both the Thighs, in the space between the Groyn and the Knee, with happy success.

The great profit of this Remedy we may learn from *Galen*, who in *Lib. 5. Method. Cap. 12.* relates, That of a Pestilential Fever all recovered who happened to have exulcerations in divers parts of their bodies; because the Morbifick matter was evacuated by those Ulcers. And because the use of these Vesicatories does often cause the Strangury (for the *Cantharides* do by a particular property affect the Bladder) it will be good when they are applied, to give the patient an Emulsion, that may temper the Acrimony of the Urine. This Symptom may likewise be prevented by mingling the powdered Seeds of *Ameos*, with the Vesicant Plaister, which Seeds have the faculty to keep the *Cantharides* from hurting the Bladder.

Amongst Revulsive Medicines may likewise be mustered, the Cataplasme of Rhadishes commended by *Crato*: The Rhadish (saith he) because it powerfully draws the malignity of matter, it is good to apply the gross powder or scrapings thereof to the feet, having first cleansed them with Salt and Vinegar. And the following Cataplasme may be better for the same purpose.

Take scrapings of a Rhadish, and the two Briony-Roots, of each two ounces, seeds of Garden Cresses one ounce, Grains of Paradise half an ounce, Sea-Salt three drams: Mix all, and sprinkle them with the strongest Vinegar, and make them up into a body, with a sufficient quantity of Sope, till it become like Cataplasme, and apply it warm with tow to the soles of the Feet, when the Patient is disposed to sleep. To this Cataplasme may profitably be added Leaves of Rue, Nettle, Sage, Scordium, Pigeons-dung, Juyce of Rue and Vinegar.

A Cataplasme of Snails beaten hath the like Efficacy, and powerfully draws unto the nether parts, hurtful Humors and Vapors; as *Galen* highly commends the same, for powerfully attracting and dissolving the waters of Hydropick persons.

The revulsive Remedies have place during the whole Course of the Disease after universal Evacuations, viz. Phlebotomy and Purgation: of the use whereof we are now to speak, that so we may pass from Chyrurgery to Pharmaceutick Remedies.

Now it is much controverted among Practitioners, whether we ought to purge in the beginning of malignant Fevers. Many reject purging at that time, not only because of that well-known precept of *Hippocrates*, that concocted Humors are to be purged, but crude Humors not: but also because in this Disease the malignant Humors are too much exasperated by purgations, and diffuse their malignant quality the more abroad; and by sharply provoking of Nature, they produce pernicious Fluxes; whereas otherwise of themselves in their Fevers, melting-fluxes do often arise, and bring the Patients to their long home. But otherwise contend, that sometimes there is such plenty of evil and venomous Humors in the first passages, that unless they be first removed by purging, or very much lessened, they infect the rest of the Humors, so that Nature cannot master them, however assisted by Antidotes and Corroborating Medicaments.

We conceive this Controversie may be thus composed, viz. that in the beginning of this disease we must abstain from purgations for the Reasons fore-alledged; and that the cinque of putrid Humors, which lies in the first passages (which, the truth is) do very much hinder the Cure, be drawn away rather by frequent Clysters, than purging Medicaments. Howbeit, if there be so great a quantity of ill Humors in the first Region, that it seems impossible sufficiently to evacuate the same by Clysters (which chiefly happens, when evil Humors abound in the Stomach, and then there is great loathing of Meat, bitterness in the Mouth, Stomach-sickness and vomiting) or when there are many worms, it is very good in such a case, to draw away the matter by a purging Medicament, that the Morbifick matter contained in the Veins, may afterward be the more easily subdued. Which matter it is that cannot be purged before Concoction, and of that must the saying of *Hippocrates* be understood, that only concocted Humors must be purged. But the matter contained in the first Region, and that mass of Excrements may be drawn away without any preparation or concoction premised, and is ordinarily purged out only by Clysters, as we said before. Now those Medicaments which we give to purge the first Region, must be chosen from amongst the most benign and gentle purgations, avoiding the most vehement, yea and the middle sort too; so that we may safely use *Cassia*, *Manna*, *Tamarinds*, Syrup of Roses and Cichory compound. And it is scarce lawful to arise to *Senna* and *Rhubarb*, or at least to mix them with others in a small quantity, when a great abundance of evil Humors do afflict the patient. The former of these Medicaments were propounded in our Cure of continual putrid Fevers, and how we should purge in the beginning of them.

But Clysters are to be used not only in the beginning of the Disease, to free the first Region from Excrements: but they are to be given in the whole Course of the Disease, if the patient be not loose-bellied, and that every, or every other day. For by those the daily Excrements are brought out, and some portion of the Morbifick matter is also by little and little drawn away; likewise the Humors mounting upwards, are brought down to the places more suitable to the intent of Nature. Now these Clysters must be composed of an emollient and refrigerating Decoction, adding gentle Laxatives: for sharp ones and Scammoniated, do overmuch irritate Nature to excretion, and often produce pernicious Fluxes.

And the truth is, 'tis best in the vigor of the disease, to put no purgers into the Clysters, lest a looseness be caused, which is very incident to this disease, so that they are rather to be of the nature of an internal Fomentation, than of a Laxative Medicine.

But if in the Course of the Disease, the Belly seem to be loose, we must not therefore abstain from Clysters, but we must use such as do moderately deterg and refrigerate, and in Juleps we must dissolve Syrup of Pomegranates, with powder of Coral prepared.

While the aforesaid Medicines are using, we must endeavour to correct the Feverish heat, putrefaction and malignant quality, with these following Medicaments.

And

And first of all the altering Juleps which were propounded in the Cure of continual putrid Fever, will be very convenient, of the Decoction chiefly of the Roots of Sorrel, Cichory, Grals, Bugloss, Sharp-pointed Dock; the Leaves of Endive, Cichory, Sorrel, Pimpernel, Maiden-hair and Tamarinds. Whereunto must be added such things as by a Specifick property do fight against the venomous quality, commonly called *Alexipharmaca*, or Antidotes; as Roots of Cinque-foyl, Tormentil, white Thistle, leaves of Scordium, Carduus, Scabious, Scorzonera, Meadow-sweet, Flowers of Marygolds, *Vetonica Rubra*, bits of Lemons, or Citrons and their Seeds, Skins of Odoriferous Apples; Shavings of Harts-horn, &c. with the Syrup of Lemons, Pomegranates, Vinegar, of the Juyce of Sorrel, &c. and we must frequently mix tart things with them, such as Juyce of Citrons, or of Lemons, Spirit of Sulphur, or of Vitriol; for they do mightily resist the putrefaction and the venomous quality.

Touching the Pome-Citron, *Hathoneus* reports, That once in *Agypt* certain condemned men were exposed to Death by biting of Beasts, and they were bitten indeed by the Asps, but had no harm thereby; because as they were led to execution, a Woman out of pity gave them some Pome-Citrons to refresh them, and quench their thirst: which having eaten, they received no hurt by the biting of those venomous Beasts. Now all parts of Pome-Citron have an Antidotary quality, and therefore it is profitably cut in pieces, Rind and all, and boyled with Roots and Herbs aforesaid, to make Juleps; and it is likewise to good purpose steeped in small drink, which the Patient ordinarily uses, unto which it gives a fragrant smell from its Rind, and tartness from its pulp: howbeit the Juyce only hath a cooling faculty.

The acid Spirits of Sulphur and Vitriol are highly extolled, especially by Chymists, and their rare virtues approved by long experience, have caused that long since they have been entertained by Galenists, and ordinarily prescribed. And that it may appear how highly the Chymist esteems of them, let it suffice to cite the words of *Mindererus* alone in his 18 Book *De Pestilentia*, where treating of Spirit of Vitriol and Sulphur, and of other Medicaments made of Sulphur: *There is (says he) no putrefaction, whose neck they break not, no infection which they do not overcome, no pravity of humors, but they can conquer. Verily (to deal clearly) if I should be forbidden or hindered from the use of Vitriolated Medicaments, I should never come to cure the Plague, or always without my weapons.*

To the same Juleps may sometimes be added *Sal Prunella*, because it powerfully cools, and extinguishes the Feverish heat; and it hath besides a kind of Diaphoretick faculty, by means whereof it is excellently fitted for Malignant Fevers.

In place of Juleps for the more delicate sort of Patients, may be substituted, sometimes medicated Broths, made with the Leaves of Borrage, Sorrel, Pimpernel, and other Herbs that are not offensive to the Palate, with Skins of fragrant Apples, with the pulp and juyce of Citrons, and a Chicken; and to them *Sal Prunella* may sometimes be added, for to cool more effectually.

Also Emulsions may be of sweet-Almonds, and the greater cold Seeds, with the Decoctions of the Juleps. And for the greater quelling of the venomous quality, to the aforesaid Seeds may be added Seeds of Citrons, or Navew or Turnep, and of *Carduus Benedictus*. And to commend the taste, the aforesaid Syrups may be mingled therewith.

Now in the whole course of the Disease, Antidotes must be used, not only mingled in Juleps, Broths and Emulsions, as we said before, and shall be further declared: but also contrived into other forms. And because all are not to be used indifferently, nor at all times of the Disease; that their right use may be well distinguished, they must be sorted into four Tribes. The first contains those, which besides the specifical quality by which they resist poyson, are cold and dry, and moderately astringent; and consequently they hinder putrefaction, strengthen the Heart, bridle the Venom, that it cannot be so easily spread into the whole body, and hinder the dissolution of the parts thereof by a kind of Compression; as Bole-Armenick, *Terra Sigillata*, Coral, Cinque-foyl Roots, and the Roots of Tormentil. The second Tribe contains such as by their coldness, and the tenuity of their substance, do resist putrefaction, and restrain the venomous quality; as Juyce of Lemons, Spirit of Sulphur, and of Vitriol, as all acid things, and Vinegar it self. The third comprehends hot and Diaphoretick Medicaments, which expel venomous Humors and Vapors from the heart, and bring them from the Centre to the Circumference; as Angelica, Zedoary, Dictamnus, Meadow-sweet, Scordium, Carduus, Scabious, Treacle, Methridate, Treacle-water. The fourth contains such as by a specifical vertue, without any excess of the first qualities, do oppugn the venomous quality; as Bezoar-stone, Harts-horn, Unicorns-horn, Troches of Vipers, and such like.

The Medicines of the first, second, and fourth Tribe, do best agree in the beginning and the augment; and those of the third Tribe in the state and Declination. Now these Medicaments must be exceedingly varied, and diversly mixed, according to the different degree of malignity or putrefaction; according to the various Intention or Remission of the Fever; and according to the divers temperaments, sex, and age of the patient; and according to other Circumstances, the

determination whereof depends wholly upon the Judgment and Prudence of the Physician, and cannot be determined by any certain Rules; only one thing I shall advise you of, which is very well known, *viz.* That when there is a vehement burning of the Fever, we must chiefly use refrigerating and cooling things; but the hot and Diaphoretick must not be medled with, which notwithstanding will be very proper when the Fever is more remiss, and the malignant quality is that which most offends. Of these Tribes therefore, divers Medicaments may be compounded, according to the Judgment of the Physician. But lest young Practitioners should be wholly destitute of some forms, I shall add a few, in imitation whereof they may advise a thousand others, as the occasion of practice shall require.

Take Roots of Sorrel, Bugloss, and Tormentil, of each one ounce: Leaves of Endive, Cichory, Sorrel, Pimpernel, of each one handful: Tamarinds one ounce; Boyl all to a pint. In the strained Liquor, dissolve Syrups of Pomegranates and Lemons, of each one ounce and an half. Make of all a Julep to be taken at thrice, adding to every dose a dram of Confection of Hyacintho, Bezoar-stone six grains.

This form of a Julep may do well in the beginning of the Fever: But if the Fever be very high, and the Patient be of a Chollerick constitution, a dram of *Sal Prunellæ* may be added to every dose, or as much Spirit of Vitriol or Sulphur, as may suffice to make it moderately tart, or both of them together. But in a Fever not very high, may be added to the Decoction, Roots of the white Thistle, and of Cinque-foyl, Leaves of Scordium and Scabious.

Take Sweet-Almonds blanched one ounce, Seeds of Melones, Gourds, Navel, Citrons and Carduus, of each two drams: beat them together in a Marble-Mortar, pouring on by little and little a pint and half of the aforesaid Decoction; Syrup of Lemons three ounces, Sal Prunellæ three drams. Make an Emulsion for three Doses, to be taken twice or thrice in a day.

In the whole course of the Disease, let the Patients use in their Broths the Confection of Hyacinths, or the following powder, which is unpleasant.

Take prepared Coral, Pearls prepared, shavings of Ivory, Harts-horn and Bezoar, of each one scruple. Mix them, make of all a Powder, of which give half a scruple in every Mess of Broth.

The Innovations of this age, who endeavour to banish Gems, Pearls, Coral, and all cordial things, from the use of Physick, and Cure all Fevers, even those that are malignant, with Blood-letting, and meer refrigerating Apozemes, may be convinced with this one Experiment, at least, touching Coral and Pearls: which being powdered, if they be infused in Vinegar, Juyce of Lemons, Spirit of Vitriol, or *Aqua fortis*, they take away all the acrimony of those Liquors. Whence we may gather, that the same Medicaments taken into our bodies, do sweeten and mollifie the acrimony and malignant quality of Humors, and reduce them to a moderation. They which have tasted the solutions of Pearls and Corals made in Juyce of Lemons, or distilled Vinegar, do know the truth thereof very well.

Where the malignant and venomous quality is very rife, *Alexipharmica*, or poyson quellers are to be given in Juleps, Broths, the ordinary drink of the patients, and in all they take in, that by a perpetual and incessant Conflict, the troublesom Enemy may be opposed.

Bezoar-stone is given alone to the quantity of five or six Grains, with water of Mead-sweet, Scorzonera, Carduus, or such like; not only to oppose the malignant quality, but also to help the Diaphoretick motion; for this stone is reputed for a sweating Medicament, which notwithstanding many approved Authors doubt of, because they could never see any sensible effect, by the giving thereof. And truly (to speak our mind) there can no great confidence be put in this stone; because although we may allow to the true genuine Bezoar-stone, those faculties which are hereunto ascribed; yet because the great price thereof causes that many Traders take a world of pains to sophisticate the same, we can now-a-days hardly get any but counterfeit. A clear testimony whereof is, that the Writers of the *Indian-Histories* do aver, that Bezoar-stone is very scarce, and of great price among the *Indians* themselves, when we have plenty of them, and cheap enough.

More credit should of right be given to that same Root, which the *Spaniards* have in this age of ours brought out of *India*, which they call *Contrayerva*, which signifies the poyson-pelting, or Antidotary Herb, because the powder thereof is a present Remedy against poysons, and drives them out of the body by sweat, or insensible transpiration. And they conceive that plant to be the common ordinary food of those Beasts in which the Bezoar-stone is found, and that the stone hath its virtue primarily from thence. A scruple or half a dram of this Root powdered, may be given in Carduus-water, or other Medicaments.

Mindererus cries up this following powder:

Take Sugar-Candy three drams, White-Ginger two drams, Camphire one dram: Make all into Powder, the Dose one dram in some convenient Liquor. But the Author doth advise, that in great pains of the Head or Stomach, Camphire is warily to be used; which yet he highly commends in

in pestilential diseases, and avouches that seasonably given, it doth more good than the most precious Bezoardick Medicaments. I conceive the powder is too hot, because of the Ginger; and I have composed this following in imitation thereof, which I have used with happy success.

Take Mineral Bezoar three drams, *Sal Prunella* two drams, Camphire one dram. Make of all a Powder. Give one dram at a time in Carduus Water, or some other convenient Liquor.

Powders may likewise be made of the fragments of precious Stones, whose virtues many deride, and others as much admire; so that from the times of the Arabian Physicians to our days, many compositions are prepared of them in the shops, as *Electuarium de Gemmis*, & *Confectio de Hyacintho*. But in pestilential and venomous Diseases, many have extolled the great virtue of the Smaragd, amongst the rest *Avenzoar*, *Mindererus*, and *Zacutus Lusitanus*. *Avenzoar* 2. *Teisir. Tract. 1. cap. 5.* That himself being poysoned, was thereby cured. *Mindererus, Lib. de Pestilentia, cap. 15.* relates, that a Woman in a pestilential Fever, who abhorred all physick, he gave the following powder, which she might easily swallow, having neither Taste nor Smell; which when she had taken, the combustions of cruel Symptoms being allayed, and the disease turning to health, she was cured.

Take of the Smaragd-stone prepared, East-India Bezoar, of each six Grains: Hyacinth prepared three Grains, mix them. Make of all a powder for one Dose.

And *Zacutus Lusitanus* relates, That a Portugal Gentleman, having through poyson fallen into a looseness and a Consumption, from which no Abstersives, Astringents or Antidotes could free him, he was cured only by the Smaragd, the powder whereof to the quantity of twelve Grains, he took every other day in Conserve of Quinces; and when he had taken it five times, he was cured of his Looseness.

The physicians of *Montpelier* do use in this Fever, as a most profitable Antidote, no ways heating, the Troches of Vipers, which are usually prepared as an ingredient into *Andromachus-Treacle*, which give from one scruple to half a dram in Cordial-Waters or Juleps.

But the flesh of Vipers were better, being dried, which hath no venomous quality (as people imagine), but is rather a potent Antidote, which is much abated by boyling; for it is boiled in Water to make the Troches, so that we see greater effects wrought only by the Heart and Liver of Vipers being dried, without any other preparation.

The Alexipharmick Medicaments of the third Tribe, viz. The Diaphoreticks and Sweaters, must be given only in the state or declination of the Disease, as was said before. Which is to be understood, when they are given in a Fever simply malignant or spotted: for in the true Plague, they must be used at the very beginning, that the venomous quality, which would quickly kill the patient, may be suddenly and potently opposed, and the malignant vapors discussed. Yea verily, and in simple malignant Fevers, if the venomous quality seem to be greater than the putrefaction, they are likewise to be given at the beginning in small quantity; making choice of such as are least hot, mixing them with Juleps, and other cooling Medicines formerly prescribed.

Now of these Diaphoretick Medicaments, there are divers degrees, for some are more hot; as *Angelica*, *Zedoary*, *Dictamnium*, *Treacle*, *Metridate*, *Treacle-water*; which are never to be given, when the heat of the Fever is at the highest, but only when the same is much abated, and then the signs of Malignity do very much prevail. But others are less hot, as *Scabious*, *Carduus*, *Mead-sweet*, *Scordium*, which may safely be given, though the Fever be in its height. And these distinctions are carefully to be observed in practice: and as for the forms of particular Medicaments, every Physician can vary them, according to the different degree of the Feverish heat, and of the Malignity. But I shall here describe such as are most effectual.

Take Water of Mead-sweet and Carduus, of each two ounces; Juyce of Lemons one ounce, old Treacle half a dram, two scruples, or one dram, according as the fear of heating the patient is more or less: Mix all into a potion; Give it warm, and cover the patient somewhat more than ordinary. If there be great vehemency of Symptoms, new Treacle will be more convenient, because of the vigor of the *Opium*, by means of which the vehemency of the Symptoms will be allayed, and the boyling of the Humors will be restrained: Yea, and sometimes when it seems inconvenient to use Treacle, as in the beginning of the disease especially, *Landanum Opium* given to two grains, and mingled with Antidotes, do much good. For by the Narcotick and Congealing power thereof, those fervent Spirits so vexatious to the Heart, are as it were fixed, and the Morbifick matter (which is most pernicious while it is in motion) is thereby stopped, and remains in a manner unmoveable; whence it comes to pass, that Nature not being provoked by the malignant Humors and Spirits, recollecting her strength, doth more easily apply unto her self the virtue of Antidotes.

Aqua Theriacalis seems fit to be preferred before Treacle it self. For seeing it is exceeding thin and spirituous, it doth more easily and suddenly pierce into, and pass through the whole body, and cause sweat. And because there are many descriptions of Treacle-water, their Dose ought to differ according as they are compounded of Simples more or less heating: I shall in this place propound the chief.

And first of all, the Treacle-Water of Bauderon is most excellent, because it is exceeding temperate. For there goes no other Liquor therein, than Vinegar and Juice of Lemons, by which the hot Ingredients are very much tempered, and therefore it may be given from half an ounce to an ounce in Sudorifick Decoctions or Waters. And although this is less heating than any of the rest prescribed by divers other Authors; yet have I invented another, easily made, which is more cooling, and does no less oppose the Fever, than the malignant quality, and may consequently be used in the whole course of the disease, or any period thereof. Its Composition is as followeth.

Take twelve fresh and juicy Lemons, take away the Bark or Rind, and the seeds, and press out the juice, and add thereto the said Rinds and Seeds; and three pints of juice of Scordium, juice of Sorrel, of Goats-Rue, of Scabious and Carduus, of each one pint: Shavings of Harts-horn four ounces, Old Venice-Treacle six ounces. Let the Rinds of white Lemons be cut into thin chips, let the seeds be beaten, and such Herbs as have little juice, let them in the beating be moistened with the juice of Lemon, and let all be distilled in Balneo Mariæ. Of the Water give one ounce by it self, or mixed with other Liquors.

The hotter sort of Treacle-waters are made with White-wine, or with Spirit of Wine; which must be warily given, and in lesser quantity; yet they pierce more than the other, and move sweat, and are chiefly used in the true Pestilence; Howbeit in some cases they may by the prudent Physician be used. Among the many Descriptions of such Treacle-waters, I will propound in this place two of the most excellent.

Take Roots of Angelica, White-Thistle, Gentian, Tormentil, Zedoary, Harts-horn, of each one ounce: of the three Sanders, of each half an ounce: Treacle three ounces, Camphire a scruple. Beat all, and steep them three days together in two pints of strong White-wine in a warm place: Then distill them in Balneo Mariæ, and keep the water for use; the Dose is from two drams, to half an ounce in refrigerating Juleps, adding Spirit of Vitriol to correct the Inflammation thereof.

Take Spirit of Wine, very well rectified one pint and an half: Old Treacle eight ounces, Elect Myrrh four ounces: Oriental Saffron one ounce: Camphire half an ounce: infuse all for twenty-four hours in Balneo Mariæ, afterward still them in the same Bath, and you shall have a very effectual Water.

The Chymists do exceedingly cry up their *Bezoardica Mineralia*, because they are Sudorifick, or Diaphoretick at least, and yet do not at all heat: which they endeavour to prove by their having no taste, in which regard they are easily taken, even by the most nice patients that lothe unpleasant Medicaments. They also commend their Medicine, which is called by them *Mixtura Simplex*, or *Mixtura spiritualis*, made of Treacle-water Camphorated, Spirit of Vitriol, and of Tartar; and they mingle a dram hereof in Juleps and Antidotary potions.

A Physician that undertakes the Cure of malignant Fevers, ought to have divers Antidotes in a readiness, and to charge them ever and anon, lest Nature be too much accustomed to one and the same, and slight the virtue thereof. Also the Nature of the venomous quality is not always one and the same, but very divers, according to the diversity of the patients bodies. So that what hath helpt one, will do another no good; so that when he hath for some time used one Antidote, he must try another and another.

While the foresaid Diaphoreticks are using, if we have a mind at any time to help their Operation, that they may more powerfully bring out the poyson into the surface of the body, some external helps may be used, viz. Cupping-Glasses, both dry, and with Scarrification, many and often set on, and Vescicatories, of which we spoke before, which are most convenient in the state of the disease, and at what time Sudorifick Medicines are given; as also Oyl of Scorpions of *Matthiolus*, which is much commended by all practitioners; for it calls forth the poyson residing in the profound parts of the body unto the external parts. And therefore the Emunctories of the body, as the groins and armpits, with the pulses of the Temples, Hands and Feet, ought frequently to be anointed with this Oyl warm, viz. thrice or four times in a day, or else every third hour. Where this Oyl is not to be had, a Liniment may be made of Treacle dissolved in Juice of Lemons, adding a little Saffron and Camphire.

If at any time Nature be oppressed with the malignity of the poyson, and overcome, and seem not to act, but as it were to submit her self with hands bound to the mercy of the Humor; The strongest Diaphoreticks are then to be given in a large dose, that the daunted mettle of the heart may be as it were spurred up, and then the strongest sorts of Treacle-waters and Bezoardicks which have greatest force to penetrate, must be used, and the addition of Camphire will much help their penetration; and outwardly, at such a time this following Fomentation will wonderfully assist the operation of such

such things as are taken in, and will help to drive out the malignant Vapors. For by this Method many have been reduced from the Gates of death.

Take Roots of *Angelica* and *Gentian*, of each two ounces : Leaves of *Baym*, *Origanum*, *Scordium*, of each two handfuls : Seeds of *Cardus Benedictus*, one ounce ; Flowers of *Chamomel*, two pugils. Make a Decoction of all in water, adding towards the end a little White-wine, wherewith foment the Feet, Groins, Arms pits, and sides, warm with sponges.

If dryness of Tongue, Thirst, and other signs do shew that the Fever doth prevail as much as the malignant quality, we must abstain from the fomentation, and instead thereof, let a Hen cut down through the Back, or the Lungs or Caul of a Wether new killed, be applied to the patients Belly.

In the whole Course of the Cure, the greatest care of all, must be to preserve the patients strength, which is much dejected by the venomous quality. It is best kept up, first by convenient Broths made with a Capon; unto which, when necessity urges, may be added the distilled Broths of Flesh, and especially the *Aqua Caponis*, which is made in *Balneo Mariae per Descensum*, as the common manner is now to make it. Confection of Hyacinths given in Broths, doth repair the strength, and doth oppugn the malignant quality. In the same Broths, Gelly of Harts-horn doth satisfy both Indications. If the strength of the patient be very much decayed, we may make bold with *Confectio Alkermes*, provided the heat of the Fever be not very violent. And finally, Wine is the most Cordial thing in the world, of the use whereof in this Disease I spake before, treating of the patients Diet. The only smell of Wine doth much refresh the patients strength, and much more a Toast dipped in Canary and Rose-water, and so held to the Nose.

And in this case also, *Confectio Alkermes*, and *de Hyacintho* are wont to be put into Axipharmical potions. Or in extreme dejection of strength, potions meerly cordial may be thus made.

Take Orange-flower water, and Rose-watter, of each one ounce and an half : *Confectio Alkermes* one dram, Syrup of Apples one ounce, Juyce of Lemons three drams ; Make all into a potion. If the Fever be not intense, Cinnamon-water may be given to the quantity of one dram, or three drams ; and sometimes Amber-Grease may be added to the quantity of five Grains, or seven. Neither in extreme weakness of the Patients, must we so much fear those hot Cordials, that we should refuse to save the Patient from present death, for fear of augmenting the Heat of the Fever ; for we must always regard that which is most pressing ; and when the Patient hath a little recovered strength, if the hot Cordials have made some increase of Heat, it may afterward be tempered by potent coolers, as *Sal Prunellæ*, and Spirit of Vitriol mixed in Juleps and ordinary drink. This Method being observed, the discreet Physician, in his administration both of Strengtheners, and of hot Antidotes and Sweaters, will prove happily successful.

After these things, must follow the Application of Epithems and living Creatures to the Region of the heart ; fomentation of the Genitals, with *Confectio Alkermes* dissolved in Wine ; Bags to be laid upon the Stomach, and other both internal and external Medicaments, largely by me described in my Chapter of weakness, or decay of strength.

As for Epithems, there is caution to be used in their Application : Because very many Authors do wholly reject the use of them, because they are wont to be compounded of refrigerating and repelling things, viz. of the Waters of cooling Herbs and Vinegar, by which the venomous quality is beaten back to the Heart ; and the Transpiration thereof, which ought always to be promoted, is hindered. But this reason cannot hinder the use of Epithems, seeing we may compound them out of Cordial and Diaphoretick-waters that have no repelling nor astringent quality in them, and without Vinegar (which some do yet allow), adding Cordials thereunto ; and by these things mingled together, Epithems may be made, not only which strengthen the Heart, but also open the pores of the Skin, that through them the malignant Vapors may more easily transpire. Of such Epithems, this may be an example.

Take Waters of *Scabious* and *Carduus*, of each four ounces : Orange-flower-water two ounces, *Confectio Alkermes* two drams, Powder of *Diamargaritum Frigidum* one dram, Saffron and Camphire, of each six Grains. Make an Epitheme, and apply it warm to the Region of the heart frequently.

Take *Confectio Alkermes* half an ounce, Powder of *Triasantalon* and *Diamargaritum Frigidum*, of each one dram and an half, a little Orange-flower water. Make of all a Liniment to be applied to the part aforesaid, after the use of the aforesaid Epithem.

Neither must we here omit such Epithems as are to be applied to the parts under the short Ribs, because of the reasons of their use propounded in the Cure of putrid Fevers, from whence the Materials must also be fetcht.

At length when as the Malignant and Venomous quality is mastered by the Remedies aforesaid,

said, and the Fever abated, and the Disease begins to decline, and the signs of Concoction do manifestly appear, purgation must be used, which by the experienced Physician may be accommodated to the strength and constitution of the Patient. I shall here, for the sake of beginners, propound only one example.

Take Senna half an ounce, Annis-seed one dram, Leaves of Scabious and Scordium, of each half an handful; Liquoris three drams: Boyl all to three ounces. In the strained Liquor dissolve the infusion of four scruples of Rhubarb made in Bugloss-water, with yellow Sanders: Manna and Syrup of Roses, of each one ounce. Make all into a Potion.

And for the most part, one purge is not sufficient in the declination of the Disease, when the patient begins to recover health; but purgation must oftentimes be repeated twice or three times at convenient distances, that the evil humors may be perfectly rooted out. Otherwise there will be danger of a Relapse, or at least the patient will be long in recovering perfect health. Because though nature be strong enough to master the reliques of the Morbifick matter, yet can she not do it but in a long time, and in the mean space the body is long in recovering its former strength.

For the perfect compleating of this Cure, it remains only that we speak something of the Correction of such Symptoms as happen in this disease. Now their Cure is very near the same which hath been propounded in the second Section of this Treatise, Chap. 2. where we delivered the Cure of such Symptoms as attend putrid Fevers. And the Symptoms of this Fever are the same in a manner with those of putrid Fevers, the difference being only in degrees of more or less; and therefore the same Remedies will suit with both. Howbeit, I shall here set down such things as have been frequently tried in the taming of such Symptoms as attend malignant and pestilential Fevers, and which have proved most successful. And we shall withal declare the Cure of such Diseases, as do supervene upon these Fevers.

And first of all, In pains of the Head, want of Sleep and Raving, at the beginning Revellers of all sorts must be used, as opening of the inferior Veins, and of the Hæmorrhoids; Emollient Clysters, Frictions of the nether parts, Cupping-Glasses, first set upon the Calves of the Legs, afterwards upon the Back and Shoulders, both dry, and without Scarrification; and Vesicatories, which in a simple Delirium or Dotage arising from a Chollerick matter, must be applied to the Arms and Thighs. But if with the Raving there be joyned a dulness and sleepiness, a Vesicatory must be applied also to the Neck; and then Repellers must be applied unto the Forehead and *Oxyrrhodines*; of which it is to be noted, that they are not so good in malignant, as in meer putrid Fevers; because the venomous Vapors must by all means be expelled, and at no hand be kept within the body. And therefore first gentle repellers must be applied; and if the vehemence of the foresaid Symptoms shall compel to fly to the stronger, we must not use them long together.

Among Repellers of the gentler sort is reckoned that common frontal of the Flowers of Water-Lillies, Violets and Roses, the greater cold Seeds and Cherms-Berries, Bedewed with the Vapor of Vinegar; And if that will not suffice, let this following be laid on.

Take Unguentum Populeon one ounce, Conserve of Roses and Violets, of each half an ounce: Oyl of Roses six ounces, Vinegar of Roses two drams. Mix them all, and receive them in two, and put them between two cloths, and apply them to the Forehead.

Mean while the Emulsions of the four great cold Seeds may be used, from which cool and gentle Vapors are wont to be carried unto the Brain, which are wont to mitigate the foresaid Symtoms. Which if they suffice not, *Narcoticks* may be added, which do wonderfully hinder the ascent of sharp and malignant Vapors unto the Brain, and procure sleep. Yet they must be given in a small quantity, as half an ounce of Syrup of Poppies; or if necessity compel, two grains of *Laudanum opiatum*, with Conserve of Roses may well be given; or they may be dissolved in some Julep, or instead thereof new Treacle may be given to the quantity of half a dram. Howbeit these *Narcoticks* are seldom to be given, and in small quantity, because they concentre the poyson; howbeit they are by some accounted *Sudorificks*.

After Repellers have been used a day or two, we must come to Derivers, among which is reckoned a Vesicatory applied to the Neck, of which before; whereunto must be added Blood-letting from the forehead Vein to the quantity of five or six ounces: which is very successful, provided Blood was before sufficiently taken from the Veins of the Arm. Also Horse-leeches may be fastned behind the Ears: Which is a good Remedy, but less effectual than the former, because by Leeches the thinner part only of Blood is drawn away; whereas by the forehead-Vein sometimes in a Phrensie more corrupt Blood is drawn than by the Vein of the Arm. At length, in the state of a Phrensie, or at the beginning of the declination, Resolvers are to be applied, especially living Creatures and their parts, as the Lungs of a Wether, which is better than young Pigeons or Whelps, because it doth softly encompass the whole Head. Now these Animals do partly resolve evil humors contained in the Brain, and partly ripen and digest them, that Nature may afterward more easily expel them. Some do unadvisedly apply them in the beginning of a Phrensie, because by encreasing the Heat, they increase

the Flux of Humors to the Brain, and encrease the Raving.

In the Inflammation, Dryness and Blackness of the Tongue, Remedies propounded in the aforesaid place are convenient; especially such as are composed of Water, or the juyce of Housleek, and *Sal Prunella*. Whereunto this following of *Mindererus* may be added, because experience hath taught that it is very effectual:

Take fresh Butter washed in Rose-water two ounces; Sal Prunella half a dram. Mix them, and keep the mixture in cold water. Give the quantity of an Hastifer or Bean oftentimes in a day, and let the Patients hold it as long in their Mouths as they can possible. It is a sign that the Cure goes well forward, if the black Sootiness go away, and the dry chopped Tongue begin to grow moist, and peelings come away from the Tongue, as if it were flayed, so that the sick parties do cough up the peeling of their Throats. But then their Palat is pained and that very thin Skin wherewith it is covered, can hardly bear any thing in regard of its tenderness, but its offended with every light tartness, and the least Acrimony imaginable, because the former Inflammation having left it in divers parts flayed, it must be covered with new Skin, and so it requires to be perfectly cooled and healed. To this purpose the following Jelly will be most convenient:

Take Seeds of Flea-bane and Quinces, of each one dram and an half: Gum Tragacanth one dram. With water of Roses draw out a Liquid Mucilage, whereunto add the like quantity of Syrup of Violets. Make it in manner of a Jelly; of which let the Patients take often in a Spoon, and hold it long in their Mouths.

Warm Milk does mitigate the pain caused by Gargarisms, tempers the Inflammation, moistens the Tongue and Throat, and attracts the Venom to it.

Take Seeds of Cucumers picked and bruised, one ounce: the White of an Egg as much as shall suffice. Make Pills, which let the Patients often hold in their mouths. Or,

Take Seeds of Gourds and Melones cleansed, and of white Poppy, of each one dram: Liquoris and Gum Tragacanth, of each one dram and an half. Beat all to Powder, and with the Mucilage of Quince-seeds drawn with Rose water, make Pills to be held in the month.

And because this Inflammation, Dryness and Blackness of the Tongue, proceeds from the burning that is within; Juleps Refrigerating are good to cool the same, unto which may be added, *Sal Prunella*, and Spirit of Vitriol. Also they may be mingled with the patients ordinary drink.

The Cure of extremity of Thirst was sufficiently propounded in the aforesaid place. But in a malignant Feaver, it will be happily extinguished, with these two Medicines newly commended, viz. With *Sal Prunella* and Spirit of Vitriol taken in Juleps, and in the ordinary drink of the patient.

Want of Appetite, Stomach-sickness, Vomiting and Hiccoughing must be cured according to the Method delivered in the aforesaid Chapter. Yet we shall add one thing touching Vomiting; that it doth sometimes so vex those that have malignant Feavers, that they presently Vomit whatever they take; and though they have Thirst, with Dryness and Blackness of Tongue, yet can they bear no kind of Liquor to drink: but Vomit all their Juleps, Emulsions, Ptisans, and their small Beer presently after they have drunk them. This most grievous Symptom is suddenly Cured, as it were by a Miracle, with a dram of Salt of Wormwood, given in a spoonful of fresh Juyce of Lemons, as I have learnt by Experience.

A Looseness is very frequent in this disease, and herein the wisdom of the Physitian is very necessary. For if it be unseasonably stopped, the venomous matter is kept within. And if it be left alone, it weakens the Patients, and many times brings them to their Deaths. In the Cure of this Looseness, we must therefore thus proceed; If it be so moderate that it weaken not the Patient, it must not be stopt, but only moderately by strengthening Clysters; but if it be immoderate, and do very much weaken the Patient, it is wont to be a melting Looseness, that thaws the Patient as it were away, and must be boldly stopped; which new Treacle to the quantity of half a dram, or Laudanum Opiatum to the quantity of two or three grains; will perfectly perform. Yet I have often seen a pernicious Flux which threatened to kill the Patient, stopped as it were in a moment, by giving of powerful Diaphoreticks in a great Dose; which did expel by the Skin that venomous matter, which by vexing and grating upon the Guts, and other Bowels, did cause such a melting and consuming Looseness.

Worms do very often vex those that have these Feavers, and are plentifully bred by the great putrification of the Humors. These are conveniently drawn away by sweet Clysters, and by potions against the worms; especially such as are made of a Decoction of Scordium. For Scordium is equally good against the malignity and the worms. And to temper the heat thereof, it must be boyled with Purslain, Sorrel and Harts-horn. Also burnt Harts-horn is profitably boyled against the worms.

Worms. For *Foreſtus* in the fourth *Obſerv.* of his ſixth Book ſaith, That no Remedy did ſo much good to ſuch as having a malignant Feaver were troubled with Worms and Loofneſs, as burnt Harts-horn given to the quantity of a dram in convenient Juleps.

When the malignant and venomous quality bears great ſway in theſe Feavers, that they come near the Nature of the true peſt; in ſuch Patients there are commonly riſings behind their Ears, and Carbuncles. Wherefore we will here ſubjoyn their Cure.

In the beginning of a *Parotis* or Riſing near the Ear, as ſoon as it begins to appear, the part recipient muſt be relaxed and widened as it were, and if the ſwelling riſe but ſlowly, the motion of nature endeavouring to expel the Morbiſick matter that way muſt be aſſiſted, by applying drawing things to the ſwelling; and by giving Antidotes and Diaphoreticks. To relax the part, make an Injection of Oyntment of Marſh mallows, and lay on afterwards moiſt Wool which is greaſe, from the Sheep. Attraction may be cauſed by applying Whelps or young Pigeons, by which alſo the pain will be mitigated. Plaſters made of Leven, Figs, Onions, Doves-dung, adding thereto butter, Hens-greaſe, freſh Hogs-greaſe, and Oyl of Lillies or ſweet Almonds. If by theſe Attractives the part be overheated, and the pain be too much encreaſed; they may be omitted by fits, laying on in the mean time the Cataplaſm made of the crum of white-bread; or anointing with the aforeſaid Oyls, being laid on with unwaſht Wool: or with Oyntment of Marſhmallows, as we ſaid before. And becauſe the part is not ſufficiently capable to receive the Morbiſick matter; to derive another way a portion thereof, a veſicatory muſt be applied to the hinder part of the Neck, and alſo the Diaphoretick formerly cited muſt frequently be given. The matter being called forth into the external part, let Suppuration be endeavoured, by laying on a Cataplaſm made of the Roots of Marſhmallows and of Lillies, with Figs, Meal of Linſeed, and the Oyls and ſeveral ſorts of Greaſe aforeſaid. When Suppuration is made, let the Tumor be opened; let the reſt of the matter be digeſted by continuing the Cataplaſm, or by laying on a plaſter of Diachylon. Let the Ulcer be cleaned with that common Digeſtive made of Turpentine, yelks of Eggs and Oyl of Roſes. Let the Ulcer be kept long open with a Tent, that all the venom of the diſeaſe may ſufficiently be purged out, and at laſt heal it up and Cicatrize it. Yet this one thing is to be obſerved, That if the Tumor doth ſo encreaſe as to cauſe danger of Suffocation or Choaking, it muſt be opened before it be perfectly ripe: For ſo ſome portion of the matter being drawn forth, the Tumor will fall ſomewhat, and the danger of Suffocation will be avoided. In like manner, if the malignity be very intenſe, that the Patient ſeems likely to miſcarry before the Tumor be ripe; then alſo it may be opened before its due time, that the force of the Venom may expire, whence oftentimes the Patient recovers. And upon this account, in the peſt, the Buboës or ſwellings in the Groin are wont to be opened before they come to Suppuration.

Finally, It were a wickedneſs to paſs over in ſilence a Rare Experiment, which hapened to me in that ſame Epidemick Feaver, which cruelly raged and ranged at *Montpelier* in the year 1623. So that near half of thoſe that were ſick died of the Diſeaſe. But eſpecially, So many as had ſwellings by their Ears (which were wont to happen about the ninth or eleventh day of the diſeaſe) they all died within two days after; there preceding or happening at the ſame time time Raving, Stupidity, Convulſions, with an unequal, frequent and very ſmall-pulſe, as it were the creeping Piſmire-pulſe. And after I had ſeen divers in this condition, who could not be helpt by Antidotes, or by drawing things laid to the ſwelling; muſing with my ſelf if by any means poſſible they might be delivered from ſo certain deſtruction: I began at laſt to think, that therefore theſe ſwellings proved ſo fatal, becauſe the part in which they happened was not capable to receive all the Morbiſick matter, which being retained within, kills the Patient; and that therefore the work of Nature being only begun in thoſe ſwellings, might be ſupplied by Evacuations, viz. Blood-letting and Purgation: when as alſo *Galen* in his 3 *de Comp. Medic. Secund. Loca. Cap. de Parotidibus*, In the Cure of theſe ſwellings preſcribes Blood-letting. But this advice was contradicted by the extream weakneſs of the Patients, which was ſo great, that they ſeemed to be even now in the pains of Death, which alſo it ſelf ſoon followed. But *Galen* in the fore-cited place, when he preſcribes Blood-letting in the Cure of ſuch Tumors, does propound two conditions, viz. If Blood abound, and the ſtrength of the Patient will bear bleeding. Both which Conditions were abſent in theſe Caſes, for Blood had been before ſufficiently drawn, both by repeated Phlebotomies, and Cupping-glaſſes: Alſo the Patients were extreamly decayed in their ſtrength. Weighing all theſe things with my ſelf, I conceived that golden ſaying of *Cornelius Celfus*, was in this Caſe (if ever) ſeaſonable, viz. *That many things are done rightly in time of eminent danger, which were otherwiſe to be omitted: And that it's better to Experiment a doubtful Remedy in one or two perſons, than to leave ſo many perſons to undoubted Deſtruction.* I was alſo encouraged by conceiving, That this great Weakneſs of the Patients, was rather from oppreſſion of the Morbiſick matter, than diſſipation or diſſolution of their ſtrength. For therefore their ſtrength did ſuddenly decay, becauſe Nature was not able to caſt off her heavy burthen; and I hoped when that Burthen was made lighter, ſhe would be freed. Add hereunto, That Bleeding

bleeding might be so ordered, that no danger should be feared therefrom, viz. If two or three ounces only were taken away at first, for trial sake, and if the success were good, a great quantity might be taken away afterward, I resolved therefore upon this course. And a Merchant of *Montpellier* named *Bernardier*, being the first I met with, and a Tumor arose behind his left Ear on the eleventh day of the Disease with such a Pulse and other Symptoms as aforesaid; I prescribed bleeding to the quantity of three ounces, which the Chyrurgeon being an Ancient and experienced man refused to do, for fear the Patient should die under his Hands; afterwards being emboldened by my presence and authority, he took away three ounces of Blood; after three or four hours, I visit my Patient again, and find his pulse was better and stronger. The Blood was very corrupt; The day following I prescribed him a purge of Senna, Rhubarb and Syrup of Roses; and so the Patient was recovered from the Jaws of Death. And afterwards all the sick that had Risings behind their Ears, first I bled several times a little at a time, and the day following purged them: and so all of them (to God be the honor and praise) so many as were thus ordered happily recovered; and never any afterwards that had those risings behind their Ears, died in the whole year.

Howbeit it is to be noted (which we hinted in the prognosis) that the swelling doth often appear critically and profitably, and thereby the sick are recovered of their Diseases, viz. So oft as they appear in the declination of the Disease; and this is easily seen by the abatement of the Symptoms which follow upon the Risings; and such are wont to happen in Feavers of less malignity. But in the time aforesaid, such was the malignity of the Epidemical Feaver, that the Tumors behind the Ears would often break forth in the state of the Disease, and Symptomatically and deadly, until by the Remedies aforesaid their destructive faculty was taken away.

In a Carbuncle supervening upon a Burning Feaver, if before its apparition Blood were not sufficiently taken away, if the Patient can bear further Blood-letting, open that Vein which is nigh the Carbuncle, that the greater attraction may be made of the venomous matter to the part affected. Afterward let the Tumor be Scarrified on every side round about, and that with pretty deep gashes, and foment it a while with warm Salt-water, that the corruption of Blood may be hindered, and the Flux thereof promoted. A while after apply a grain of a Caustick to the middle of the pustule, and upon the whole swelling, lay this following Cataplasm:

Take Leaves of Rue and Scabious bruised, of each one handful; three pair of dried Figs bruised; sharp Leven an ounce; Pepper powdered one dram; two yolks of Eggs. Mix all into a Cataplasm, which must be applied for two days together.

And then lay on this following:

Take Juices of Comphry the greater, Scabious, Mary-gold, of each one dram; old Treacle four scruples; Salt one dram; two yolks of Eggs: mix them all and apply it to the Tumor.

Also at the beginning may be applied the Cataplasm de *Arnoglossa*, described in the Dispensatory of *Bauderon*.

But to the *Eschara* after the Application of the Caustick, apply *Unguentum Basilicum*, adding thereto Treacle, Oyl of Scorpions, and the yolk of an Egg.

When the Tumor is grown, lest the malignant matter should flow back again to the internal parts, let the compass thereof be anointed with Oyntment of Bolus, twice or thrice in a day: And upon the *Eschara* or Crust, that its falling off may be hastened, lay *Unguentum Basilicum* with Butter and Sows grease mixed therewith. After the crust is come away, let the Ulcer be cleansed with this following Oyntment.

Take juce of Marigolds, Wormwood, Scabious and Smallage, of each one ounce; choice of Myrrh Florentine, Orris, Aloes, Sarcocolla, of each one dram; Honey of Roses two ounces: make of all an Oyntment, to be used till the sore be perfectly cured.

CHAP. II.

Of the Measles and Small-Pox.

That Feaver which is commonly attended by the Measles and Small-pox, may justly be reckoned among malignant and pestilential Feavers; seeing it is Epidemical and Contagious, and kills very many Children, to whom it commonly happens.

DIFFERENCE.

What is the Difference between the Measles and small-pox, Authors are not yet well agreed. But custom hath obtained, that those same larger pustules or wheelks like unto Warts (from whence they have their name) should be called in Latin *Variolæ*, in English the small-pox; but those little pustules and as it were asperities of the Skin with a deep redness like *St. Antonies Fire* or the Rose;

which are discuffed within five or seven days without suppuration, are called in Latin *Morbilli*, and in *English* Measles. There is alfo another kind of puftles common to Children, like unto the Small-Pox in refpect to the fafhion and fize: but herein it differs, in that the Small Pox begins with rednefs and Inflammation; but thefe are white, and as it were bladders full of a wheyifh humor, which within three days break and dry up, and are wont to caufe no danger, and commonly break forth without a Feaver. It is defcribed by *Vidus Vidius*, in thefe words; *Some befides the two former do add a third, which they call the Crystals*. For fo they term certain Bladders full of matter, which fhine like Crystal, wherewith the Skin is in divers parts diapered; the common people call them *Ravaglione*. Unto which all men are not fo fubject as unto the Small-Pox and Measles, neither are they fo grievoufly afflicted under them. Wherefore thefe Bladders ought not to be reckoned as a third fort with the Small-Pox and Measles.

Touching the Small Pox and Measles Authors difpute much, and efpecially whether thefe be new Difeaſes, or if they were known unto the Antients, and what is the next and immediate caufe of them. But ſince I affect all poffible brevity in my Lectures, I have been wont to omit all Controverſies, propounding only the plain and naked decifions of them; and accordingly I ſhall briefly unfold what is to be thought of the foregoing Queſtions.

CAUSES.

And in the firſt place, I conceive the Small-Pox and Measles to be no new Difeaſe, ſeeing they riſe from a moſt ancient Caufe, viz. The impurities of the maternal blood; which when the *Arabians* obſerved, they accounted it no new Difeaſe. But if they had firſt come abroad in their times, they would have mentioned their novelty. And although they were the firſt that exactly deſcribed them; and *Hypocrates* and *Galen* with the reſt of the Antients have ſcarce mentioned them; we muſt ſuppoſe that therefore the Antients did not write diſtinctly of them, becauſe they are only accidents of a malignant Feaver, and critical Eruptions, which do not make a diſtinct diſeaſe by themſelves. Or becauſe in *Greece* through the mildneſs of the Air, theſe diſeaſes were ſo light, as not to deſerve the care of a Phyſitian. Even as in the *Western Indies*, in regard of the great temperatenefs of the Air, it was wont to be ſo light, that it was ſcarce taken notice of before the coming of the *Spaniards* into thoſe parts. But a *Blackamore* which was brought thither, being taken with Peſtilential ſmall-Pox, the malignant and venomous quality being ſpread by infection, the diſeaſe began ſo to range and rage, that a great part of the *Indians* were ſlain thereby. For whereas before, thoſe impurities of their Mothers blood remaining in them, were wont eaſily to be diſcuſſed, through the clemency of the Air; now when a venomous quality was added to them, they cauſed grievous diſeaſes.

Now that the mothers blood is the true caufe of the ſmall-Pox and Measles, is hence chiefly gathered, becauſe among many thouſands of men, it is hard to find one, who once in his Life hath not had theſe diſeaſes. But a diſeaſe common to all men, muſt needs depend upon ſome common caufe: ſuch as are the principles of Generation, viz. The Seed and Mothers Blood.

But the Seed cannot be the caufe of the ſmall-Pox and Measles, becauſe from it comes Hereditary diſeaſes, ſuch as laſt a mans life-time; it remains therefore that theſe diſeaſes ſpring from the mothers blood, with which the Child is nourifhed in the Womb. For therein, be it never ſo pure, ſome impurities are found, which communicate their pollution to the parts of the Child; and that pollution of the parts doth defile the Maſs of Blood; and being provoked by ſome occaſion, doth make the ſame to boyl; by help whereof the Blood ferments and becomes putrified, both it and the parts aforeſaid. This the *Arabians* do manifeſt by a clear example of Wine, which being poured whiles it is new into a muſty or otherwiſe ill-qualified Veſſel, receives that ill-quality from the Veſſel, but when it begins to work and putrifie, it cleanſes both it ſelf and the Veſſel. Now this working doth commonly happen to Children; howbeit ſometimes to thoſe that are elder and have attained mans eſtate, becauſe it is evermore ſet on work by ſome external Caufe, ſuch as is efpecially a certain diſpoſition of Air proportionable to this diſeaſe; whence it comes to paſs, that ſometimes the ſmall-Pox, ſometimes the Measles are riſe, becauſe the Air is ſometimes enclined to the one, and ſometimes to the other.

Neither can thoſe impurities of the Mothers blood infect her, and caufe in her the ſame diſeaſes, although *Hypocrates* ſays in his Book *de Natura Pueri*. That there are three parts of the Blood, one moſt pure, with which the Child is nourifhed; another impure, wherewith the Mother is nourifhed; and another, moſt impure, which is kept in the Veins of the Womb, the whole time of going with Child, and after the Birth is purged away in the Child-bed Purgations.

For Firſt, ſeeing the Mother hath parts more hard and ſolid, they do not ſo ſoon take impreſſion as the tender and ſoft Body of the Child.

Again, That moſt impure part of the Blood which is kept in the Veins of the Womb and of the After-birth, the whole time of Belly-bearing, doth infect the Blood in the paſſage; which is carried through thoſe parts to nourifh the Child: whence the Child contracts an evil quality, which in its time

time is the Cause of that Ebullition in the Blood of the Child. But that impurest part of the blood remaining in the foresaid places, doth not infect the Body of the Mother.

Furthermore, it's not to be wondred at, that the breaking out of the Small-Pox and Measles, is sometimes so long deferred, as that some have them at mans estate. For those impurities do not substantially remain in the Body as many imagine: for they would be corrupted by long stay, and acquire a most grievous putrifaction. But only an evil quality is by them imprinted upon the parts of the Child, which in process of time infecting some part of the Humors, becomes offensive to Nature; which then rousing her self, doth drive those infected portions of the Humors into the Skin.

And forasmuch as in the Mass of Blood a twofold Excrement is found, the one thick, the other thin: of the thick, the Small-Pox are bred: of the thin, the Measles. And although the evil and malignant quality be one and the same, infecting both Excrements: yet because the Nature of the Excrements is different, the Analogy of the External Cause unto them both is different. Whence it comes to pass, that sometimes the Small-Pox and sometimes the Measles are Epidemically spread abroad.

And although the Small-Pox are wont to break forth in the whole Body, yet are they wont to appear in greatest quantity in the Face, Feet and hands; which is otherwise in the purple spots of the purple Fever, for they appear most on the Breast and Back. The cause of which difference is this, That inasmuch as the Small-Pox arise from an Ebullition of the Blood, by help whereof an Excretion is made of the Excrements lurking therein unto the Skin; and the Liver being the Fountain and original of Blood, whose Emunctories are the Face, Hands and Feet; whence it comes that such as have hot Livers, have red and rubied Faces, and feel intense heat in the Palms of their Hands and Soles of their Feet; it follows that the Small-Pox and Measles must come out there more than any where else. Contrariwise, the purple Spots which appear in malignant Fevers, do arise principally from the misaffection of the Heart, and therefore they break out chiefly in parts near the Heart, and especially about the Loyns; because in them the *Vena Cava ascendens*, and the *Arteria aorta* which are annexed unto the Heart, have their Course.

Also another difference is to be noted between the Small-pox and purples; because the Small-Pox and Measles appearing on the third or fourth day from the beginning of the Fever, are wont to be critical, and for the most part void of danger: but the purple Spots, though they appear on the seventh day are commonly Symptomatical, and render the disease worse; when as a man would think it should be otherwise, for a disease is more crude on the fourth than the seventh day. But the Cause of this difference consists herein, That in the *Small-Pox* and *Measles* the Fever commonly begins at the highest; so that not only on the third and fourth day, but also on the first or second days excretions may be in them critical. But malignant Fevers proceed more slowly, and their beginning is commonly extended to the seventh day: so that excretions which then happen cannot be critical. Now that the *Pox* and *Measles* comes so soon to their state, and not the Malignant Fevers, is hence; because the *Pox* and *Measle-Fever* come from the lightest putrifaction, and rather from an Ebullition of the blood, than from any intense putrifaction of the matter; and therefore Nature by help of Coction makes it to cease before the seventh day, because it was a light Fever, and rose from the slightest Causes. But in malignant Fevers, so great and sordid is the putrifaction, that it cannot be corrected in the fourteenth, nor sometimes in the twentieth day. And therefore the Spots breaking out before that time, the disease is exasperated; because Nature was forced to expel them, without Concoction and Symptomatically.

The expulsion therefore of Small-pox and Measles is caused by an Ebullition of the Blood: which Ebullition according to *Avicenna's Doctrine* is twofold; the one perfective, the other corruptive. The perfective or depurative is that in which only the impurer and Excrementitious parts of the Blood are by nature purged forth, that the whole mass may afterwards remain pure; and then the Small-pox are innocent, which are Cured without any help of Physick. But the corruptive is, wherein not only the Excrementitious parts of the Blood, but the sincere Blood it self is putrified; whence arise dangerous and deadly Pox; and according as there is more or less putrifaction, in more or fewer parts of the blood, so is the danger more or less. This corruptive Ebullition doth chiefly happen when those diseases are Epidemical, being occasioned by a malignant Constitution of the Air, by which an Ebullition of the Humors, and a malignant putrifaction is caused; whence many and dangerous Small-Pox are caused; which are sometimes (according to *Rhasis*) the Fore-runners of the *Plague*.

Pox and Measles are reckoned among acute diseases, because ordinarily they are terminated within the space of fourteen days. Now some do wittily observe a double order of times in this disease, viz. the time of Ebullition and the time of Eruption: the time of Ebullition is commonly terminated in four days; so that the first day is counted the beginning, the second the augment, the third the state, and the fourth the declination: for then the Fever and other Symptoms are wont to remit.

But the beginning of the Eruption of the Pox, is the fourth day it self, the augment reaches to

the seventh, the state until the eleventh, the declination unto the fourteenth, at which time the Pox are dried. Howbeit oftentimes they are not dry until the twentieth day.

Differences of Small-Pox and Measles, are taken either from the substance, in regard of which, some are more or less Flegmatick, Bloody, Cholerick or Melancholick: or from the quantity, in which regard they are more or less in number; greater or less; profound or superficial: or from the quality, in which respect some are Red, others White, Yellowish, Violet-coloured, Livid, Black, according to the diversity of humors of which they are compounded; or from the time, in respect whereof some come quickly out, others slowly; some are soon, others late ripe, or dissolved: or from the place, in which respect, some Occupy only the Skin; others do seize upon the internal parts also, as the Throat, Lungs, Guts, Liver, Spleen, and other Bowels.

DLAGNOSTICK. The Diagnosis respects either the disease present or at hand. The Small-Pox and Measles, when they are present, are subject to the outward Senses, and need therefore no other signs. But these signs following declare them to be at hand.

Pain in the Head with Pulsation in the Forehead and Temples; great sleepiness; Terrors in sleep; sometimes ravings, tremblings and convulsions; sneezings, frequent yawning, hoarseness, cough, difficulty in breathing; heat, redness, and sense of pricking over the whole body. Pain of the Back which comes sometimes alone, or appearing with few other Symptoms in a Synochus Feaver, it shews the Small-Pox will come out. For seeing through the Back are carried the great Vein and Artery, in which the Malignant blood boyling, does send forth sharp Vapors to the Nerves and neighbouring membranes; it must needs be, that pains should be felt especially in those parts. Great Anxiety and inquietness. Tears flowing of themselves. Shining before the Eyes, and their Itching, a swelling of the Face with some Redness. A vehemency of the Symptoms at first, so that the disease seems of a sudden to have attained its vigour.

All which are caused, either by many and thick vapors sent up by the boyling of the blood, into the Head, *Diaphragma*, and other parts; or from the nature of the Pox themselves, now beginning to invade the parts; or by a Fluxion caused by heat, which dissolves the humors in the Brain.

PROGNOSTICK. It's of great moment to foresee the Small-Pox; but much more to foretel their event, which the following Prognostick signs will declare.

And in the first place those Small-Pox are wont to be void of danger, which come out soon and easily, and do quickly ripen.

In which the Feaver is moderate, without great Symptoms, which cease after they are come out, or is very much abated, in which the voice is free, and breathing easie.

Small-Pox which at first are red and white, soft, distinct, few, round, pointed, coming only in the Skin and not inwardly, are wont to be safe.

All the signs aforesaid do signifie the paucity of the Morbifick matter, its Obsequiousness, Benignity, and the strength of Nature, lustily expelling.

Contrariwise, dangerous and deadly Pox are known by a great Feaver, which lessens not after they are broke forth; for it signifies the malignant and venomous humors are sufficiently expelled unto the Skin, but that the greatest part of them remain yet in the Veins. Great anxiety and inquietness; which comes from the same humors boyling in the Veins. Difficulty of breathing, which signifies either Pustules or Imposthumes in the Lungs; or a quinsie, or great-decay of strength. Great thirst, which declares the inward burning; and if with the thirst shortness of Breath be encreased, Death is at hand, a looseness or bloody-flux, which shews the malignant humors have their recourse inward, which is a course quite contrary to that of Nature, and therefore deadly, so that few of those which after the Pox coming out, are taken with such a looseness do escape.

A bloody Urin is a most deadly sign; and likewise if by stool pure and sincere blood be voided. Sometimes also by the Nostrils, Gums and other parts of the Body blood is voided, which are commonly deadly signs. For they signifie the extream Acrimony and malignity of the blood: which doth vehemently provoke nature, and compels her to a preposterous excretion thereof.

Also Pox long a coming out are very bad, which signifie the contumacy of the matter, or the weakness of Nature; many, great, double and united Pox, do shew an over-abundant quantity of Morbifick matter, and are bad. So are hard ones, shewing the thickness and incoctibility of the said matter. Also flat ones which shew the weakness of the expulsive faculty, and they are worse if they have a black spot in the middle of them, which argues extraordinary malignity. And green, blewish and black, which spring from that sort of choler called *Bilis Porracea*, or *Atra*, Leek-green or Black-Choler are a bad sign.

They are worst of all which when they are come forth do presently vanish, and the Tumors of the parts fall; for they signifie the retirement of the humor inwards; and none of those escape who have the Pox on this manner going in again, but they die commonly within twenty four hours.

They are also dangerous, when spots like those of the purple or spotted Feaver, are mingled among the Pox; especially if those spots be Livid or Black. For they signifie not only that same light putrefaction,

faction, which is wont to happen in the Small-Pox by means of the Ebullition of Blood: but also that intense and profound Malignity is peccant; from which much greater danger is threatened to the Patient.

Dung or Urines in this disease livid or black, do portend great danger: for they signify that Melancholy abounds in the Veins, and infects the whole mass of blood.

CURE. The Cure of the Small-Pox and Measles is performed in the satisfaction of four Indications. Whereof the first consists in the Evacuation of the peccant humors. The second in assisting the motion of Nature, or helping to expel the Pox. The third in the opposition of the malignant and venomous quality. The fourth in correction of Symptoms. All which that they may be conveniently effected, first a convenient Diet must be appointed, which must be the same which was ordered in the Cure of putrid Feavers: howbeit some things must be particularly noted.

First, that the Patients be kept in a warm room, to the end their pores may be kept open, and the breaking out of the Small-pox may there be furthered. Therefore they must be kept in a Chamber well shut, which the cold Air must in no wise enter into. For many Children that had benigne Pox, have been killed by letting in the cold Air upon them, viz. The Morbifick matter being thereby driven back into the inward parts. And for the same cause they must be moderately covered with Cloaths; but so that the heat of the Air or the weight of the Cloaths may not augment the heat of the Feaver. The foresaid coverings are wont commonly to be made of red cloaths, because they are thought by some Analogy to move the boiling blood to the external parts. Many are also wont to keep an Ewe or Weather in the Chamber or on the Bed; because those Creatures are easily infected, and draw the venom to themselves, by which means some ease may happen to the sick persons.

A decoction of Barley, or of the Roots of Sorrel, or of Harts-horn, is profitably used for drink, in the beginning of the disease especially, and when the Feaver is vehement. But if the Feaver be not very violent, a Decoction of Barley and Figs will be very profitable, viz. Effectually driving the Humors to the Skin; and *Forestus* and *Amatus* did continually use the same with good success.

Furthermore, Whereas in the whole course of the disease, Sleep ought to be moderate, yet in the Augment when the Pox break forth, long Sleep is hurtful, and it is better to watch more than ordinary.

That therefore the foresaid Indications may be fulfilled, the Cure must be begun by Blood-letting (if Blood in any sort is redundant, and the Age of the patient is like to bear it) and a Vein must be opened as soon as may be. But if the Physitian shall not be called the first day, yet he shall do well to take blood before the breaking forth of the Pox or while but few are come out; which time is wont commonly to last until the fourth day, from the first onset of the Feaver. In which Case notwithstanding, diligent heed is to be taken. For if upon the breaking forth of the Pox, the Feaver and its Symptoms be abated, it is better to leave the business to Nature working well, which will sufficiently expel the whole Morbifick Matter to the Skin. Also Blood-letting is not in this case necessary, since experience shews, that an infinite company of Children having gentle Pox, and not plethorick, are happily cured without bleeding. Nay rather in the former case sometimes blood-letting may do hurt, because the expulsion of the Small-pox is caused by an Ebullition of blood: which Ebullition if it be small, it will by blood-letting be lessened very much, and so it will become insufficient perfectly to purge the mass of Blood from its impurities. Contrariwise, if upon the Eruption of the Pox, the Feaver becomes more strong, there be anxiety, difficult breathing, an Urin thick and red, and other symptoms seem greater, it's a sign that Nature is oppressed with the over great burthen of humors, and that she cannot govern them conveniently; and that therefore Phlebotomy is necessary, that a part of the burthen being taken away, Nature may be better able to expel the rest. In one word, when there is an Ebullition perfective merely and depurative, blood is not to be taken away: but in a corruptive, Blood-letting is extremely necessary, yea even in that which hath less malignity in it, whose degrees have been specified before. And so necessary is blood-letting in dangerous Pox, in which the corruptive Ebullition is wont to happen, that the tender age of Infants must not hinder it. For it is grown into a custom to let Children blood when they are four years old, and sometimes when they are three. The Physitians of *Paris* in their tender age and while they suck, do let Children blood. Which yet the tender age of Infants doth hardly admit, with that light nourishment of milk, and the plentiful efflux of their humors by transpiration; neither can this new licence of letting such young ones blood be justified by any countenance from the wisest Authors of *Physick*.

In pretty big Children, many times once blood-letting will not serve the turn, but it must be repeated if the Feaver remain intense, or if Raving or any other grievous Symptom do urge. Yea verily when the Pox are perfectly come out, which for the most part is within nine days, if the Feaver be very urgent, blood must be again let, and the patients ordered as those who have a putrid Feaver.

If blood-letting be suspected because of the tenderness of the Childrens Age, or because the fitting

ting of the blood may be diminished by Cupping-glasses with Scarrification applied to the Back, Shoulders and Thighs; which may also well be used in the state of the disease, seeing the Motion of Nature from the Centre to the Circumference, is by them promoted. But care must be taken that in young Children the Scarrifications be not too deep: for it happens sometimes that an unadvised Surgeon cuts so deep, as to cut asunder some Veins, and let out the fervent and boiling blood, so that there is great trouble to stop the same.

Purgation is suspected in this disease; for it makes a motion contrary to that of Nature, viz. From the Circumference to the Centre; and to whomsoever, having the Pox, a looseness happens, the Pox commonly strike in, and the party dies, as I said in the Prognostick. Yet observe, that many times Purgation is to good purpose practised before the Pox come out; and before the Feaver grows vehement, viz. When the Children are in the Neutral state of Decidence. For then if ill humors abound, they are profitably diminished by purging, that Nature may afterward more cheerfully set upon the Expulsion of the remainder. But when the Pox begins to appear, Purging will be pernicious. And likewise, if there be great malignity abroad, as in an Epidemical Constitution, when very many Children die of that disease; it is better wholly to abstain from Purging; because in diseases which are very malignant and pestilential, purgation in the beginning of the disease is very hurtful. Now the purgatives must be compounded of gentle simples, viz. Rhubarb, Cassia, Manna, Tamarinds, and Syrup of Roses.

In the Course of the disease, if the Belly be hard and bound, it may gently be removed, but not provoked; and that by a Suppository of Honey alone without Salt, or with a Clyster of Broath or Milk, or a decoction of French Barley, Raisins and Liguoris, with Sugar and yelks of Eggs.

After blood-letting and other Evacuations (if necessary) the expulsion of the Pox must be helped forward, not only with Specifick Medicines driving the humors to the Skin, but also with Diaphoreticks and Alexipharmicks; especially if the Pox be Epidemical and being very malignant, do threaten great danger.

There is a vulgar Medicine commended by *Rhasis*, *Avicenna*, and all the *Arabian* Physicians, to drive out the Pox, which also the greatest part of our later Physicians use, according to the description of *Avicenna*, which is thus:

Take fat Eggs seven ounces; Lentils shored three drams; Gum-Lac two drams and an half; Gum-Tragacanth and Fennel-seed, of each two drams. Boyl all in a pint and half of Fountain-water to the third part. Let the Patient drink thereof. Rhasis adds Saffron fifteen grains, Raisins five drams, because Saffron opens and corroborates, and the Raisins do strengthen the Liver. And Tragacanth although it do incrassate and astringe, yet is it therefore mingled with the rest, that it may prohibit the over-great Ebullition of Blood.

Lentils are by some Neotericks rejected, because they are restrictive and may hinder the coming forth of the Pox. But the Authority of so many and such noble Princes of Physick, must not rashly be rejected; but we must rather determine, the Lentils shored are with great reason put into this composition, viz. That by their astringent and incrassating faculty, they may bridle the Fervency of the Humors, and hinder their falling upon any noble part; to which purpose Gum-Tragacanth was added, as I hinted before. This is taken out of *Galen*, who in the 1. *De Aliment. Facult. Cap. 18.* doth teach us, That Lentils twice boyled do strengthen the Natural parts, and by their astringency stop the flux of the Belly. The Lentils may therefore be put in or left out according to the Judgment of the Physician who manages the Cure, as there is more or less necessity of attenuating and driving the humors into the Skin. For if the matter be subtil, and the Ebullition great, the Lentils may profitably be put in for the intent aforesaid. But if the matter seem to be thick, so that Nature can but slowly drive it into the Skin, then must they be omitted, and the Gum Tragacanth and only the other attenuating and Diaphoretick things used for the drink. By which it appears, that we must not too strictly adhere to the forms of Medicaments propounded by Authors, but that in several occasions they must be variously changed. Let this following Receipt serve for an example, compounded of the foresaid simples, and partly of others that are Diaphoretick and resist malignity; which may much help such as have this disease, in making the Pox to come well out.

Take Roots of Fennel and Sorrel, of each one ounce; Harts-horn shavings half an ounce; Leaves of Scabious, Scordium, St. Johns-wort, of each one handful; Three fat Eggs; Gum-Lac three drams; Seeds of Navew or Turnep and Carduus Benedictus, of each two drams; Lentils unhusked half an ounce; Gum Tragacanth one dram and an half. Boyl all to a pint and half; Of the straining take three ounces; Syrup of Lemons one ounce. Mix them. Make of them a Julep, let the Patient drink thereof twice or thrice in a day.

If the Malignity be very great, as commonly it happens in Epidemical Small-Pox, we must chiefly use Antidotes. And consequently all those Remedies which we have propounded in malignant Feavers will be good in this disease, respect being had to the Age and strength of the Patient. And among others,

others, Confection of Hyacinth, Bezoar Stone, Powder of Coral, Pearls, Harts-horn, Oyl of Scorpions of *Matthiolus*, must be used frequently, with other things, the manner of whose Use may be learnt out of the foregoing Chapter.

Neither must such things be omitted as do restore the Patients strength both inward and outward, which may be also learnt out of the foregoing Chapter, and by the prudent Physician administered in due season.

And it must be heedfully remembred, That such medicaments as drive out the *Pox*, are not to be used in all Patients. For sometimes they break forth so violently, that they have need to be restrained for a while. For the great Ebullition and immoderate fervor of blood, if they be not tempered, are wont to destroy the Patients; and therefore it is good in such a case to use bridlers and coolers. For example, a Julep may be thus composed:

Take whole Barley one pugil: Cinquefoyl Roots and Tormentil Roots, of each one ounce. Leaves of Sorrel, Endive and Wood-Sorrel, of each one handful. Lentils excorticated half an ounce: Gum Tragacanth one dram. Boyl all to a pint. In the straining dissolve four ounces of Syrup of Lemons or Pomegranates. Make of all a Julep for four doses, to be taken twice in a day.

Amatus Lusitanus in the 18. Cure of the Third Century, propounds an example of such kind of *Pox* arising from boyling humors, and cured only by coolers and thickeners. Which Example I thought good to cite in this place word for word, that the young beginners may perceive in what cases the Cure is most to be varied. *The Boy of Altarasius (says he) began to have the Small Pox, some of which did run together, so that in two days they flead his Miserable Carcase: for the Pustules crept along and did only flay off the Skin, which I have likewise observed in other Children: Against which I thus set my self to work: First, because this matter was too thin, I endeavoured to thicken the same, and not only so, but to abate the evil quality of the Liver and internal parts, that no more such thin subtle Humor might be bred. This I did with refrigerating Medicaments, as Syrup of Roses, of Cichory simple, of Endive and Violets, with Waters of the like nature mixed with them. He was anointed with Ceratum Santalinum. But the Diet likewise helped much, which was ordered cold and moist. By all which the matter became thicker, and the Pox began to appear thick and large.*

And for ordinary Drink prescribe a decoction of Barley and Sorrel Roots. And these Remedies must be continued until the Fervency of the humors shall begin to abate; if Nature seem to want their assistance.

These things might suffice for a direct Cure of the Small Pox. But because they may bring great damage to divers parts, both internal and external, we must endeavour the Prevention and Cure thereof.

The internal parts may especially be preserved with a Decoction of Lentils, of Gum Lac and Tragacanth, described before. For Gum Lac defends the Liver and Spleen, Lentils the Guts, and Tragacanth the Breast.

But the Lungs are peculiarly preserved by Conserve of Roses and Violets, and Syrup of Violets, Jujubes, Myrtles, dried Roses, Poppies, and also these following LOHOCHS. See in my *Dispensatory* (at the beginning of the Lohochs) what a Lohoch is; and why so called.

Take Conserve of Roses one ounce and an half, Juice of Lentils thrice boyled six drams: Poppy-seeds half a dram: Gum Tragacanth half a scruple. With Syrup of dried Roses make all into a Lohoch.

Or this of *Avicenna*, which is commended by *Guainerius* and *Forestus*.

Take Lentils unshaled and finely powdered three drams: White Poppy-seeds one ounce: Conserve of Roses two ounces: Julep of Roses as much as shall suffice. Mix all into a Lohoch.

Or such a Lohoch as this following may be made only of Syrups.

Take Syrup of Violets, Jujubes and dried Roses, of each one ounce: Syrup of Poppies half an ounce, Mix them, let the Patient lick thereof often out of a spoon, and swallow it down leisurely.

But if a Flux be at present in the Lungs and cause hoarseness and suffocation, it must not only be stopped with the foresaid Remedies, but revelled by Cupping-Glasses, both dry and scarrified, and by bleeding, if nothing else hinder. Also give the Patients to drink a Decoction of Barley, Jujubes and Liquoris, and let them use this following Lohoch.

Take Seeds of Marsh-mallows, Mellons, Cucumers, and white Poppy, of each two drams; Raisins stoned and Jujubes, of each four pair. Boyl all to a pint. In which dissolve Conserve of Roses and Violets, of each half an ounce: Powder of Diatrachanthum frigidum three drams: Sugar-Candy and Sugar of Roses, of each as much as shall suffice. Make all into a Lohoch. The Jaws and Throat may be fenced against the Pox before they break out, with this following Gargarism.

Take French Barley one pugil: Plantane Leaves two handfuls; Red-Rose Leaves one pugil: Balau-stins, Seeds of Sumach, of each two drams. Boyl all in two pints of Water to a third parts consumption. In the strained Liquor dissolve Syrup of Mulberries and Pomegranates, of each one ounce. Mix all into a Gargarism.

If the young Age of Children cannot admit a Gargle, a Lohoch may be made of Syrup of Mulberries Pomegranates, of dried Roses, either alone, or mingled with Red-Rose and Plantane Waters. Which must often be given them in a spoon. Wherewith if the Fluxion cannot be stopped by reason of the abundance of the Rheum, so that there is fear of Suffocation impendent; such things must be used which widen the passages, and help the excretion after this manner:

Take Mucilage of Fleabane seed, and Oyl of sweet Almonds new drawn, of each one ounce and an half; whitest Sugar two ounces: mix them. Make of all a Lambitive to be given every hour.

If by means of the Acrimony of the flux, or the plenty of the small-Pox, an Ulcer be bred in the Jaws or Throat, it must be cleansed with Barley water and Honey of Roses, or with Allom-water, and if it tend to corruption, a little *Aegyptiacum* Oyntment must be mingled therewith.

The Guts will be preserved by the same Remedies which were appointed to preserve the Lungs. But if a present Loosness or Dysentery be urgent, first detergent and lenitive Remedies must be used and afterwards astringents. And so Clysters must be made of chalybeated Milk, of Sugar and yolks of Eggs: and afterwards of a Decoction of Barley and red Roses with the yelk of an Egg: And last of all, of a Decoction of *Plantane*, *Knotgrafs*, and *Prunella* or *Self-heal*, and other Simples set down in our Cure of the Dysentery. And it is to be observed, That a Loosness in Children that have the Pox, is oftentimes caused by worms, which lasts during the whole disease, whence they are in the danger of Death; because the expulsion of the Pox is thereby hindred wholly or lessened. Which is easily known by the thickness and viscosity of the Excrements, and their gray or whitish colour; then must be administred such things as kill worms, and sweet Clysters must be injected.

Sometimes also the Kidneys are affected and are exulcerated, whence arises Pissing of Blood. In this Case it is good to give an emulsion of the four greater cold Seeds, with Trochischs of *Alkekengy de Carabe*, and other things set down in our Chapters of Pissing of Blood.

Among external parts, the Eyes are most of all to be guarded from the small-Pox. For being endued with a soft and humid substance; the matter of the Pox is easily driven unto them: whence arise grievous Calamities, and sometimes total Blindness.

Before the Pox break out therefore, or when they begin to appear, the Eyes must be anointed every hour with *Plantane* and *Rose* waters, in which a little *Saffron* is dissolved; or with the following Eye-Salve, which doth more effectually preserve them.

Take Water of Roses and Plantane, of each one ounce and an half. Powder of Sumach-seeds two drams. Infuse them a little while hot. Then strain the Liquor hard out. To the strained liquor add Camphire ten grains. Saffron five grains. Make all into a water for the Eyes.

It will be yet more effectual, if instead of the waters, the Juyces of *Knot-grafs* and *Shepherds-pouch* be mingled with the rest.

And if some Pox begin to peep out of the Eye it self, Pidgeons blood must be often dropt in; that their resolution may be hastened. Then also this following Eye-water is to be used.

Take Red Rose water two ounces; Eye-bright water half an ounce; Trochisci albi Rhasis one dram; Tutty prepared one scruple; Camphire five grains: Saffron two grains. Make all into an Eye-water, and wet the Eyes often therewith, with a thin linnen rag.

But when the Eyes so swell that they cannot be opened, they must often be washed with a Decoction of Linseed, Fenugreek seed, Quince-seed and Mallow-seeds; and so the swelling will fall, and the Eyes open, and if when the Eyes are opened, there appear clouds in them, they must be scoured off with Sugar Candy finely powdered.

And finally, if the Eyes are ulcerated, they may be cured with this following Eye-Salve.

Take washed Ceruss three drams: Sarcocol one dram: Gum Tragacanth one scruple: Opium two grains: With Mucilage of Gum Tragacanth drawn out with Plantane-water make all into little Cakes or Trochischs, which must be dissolved in Womens Milk, or red-Rose water, when it is to be used; and in all other things proceed, as Practitioners teach at large, in the Cure of Ulcers of the Eyes.

To preserve the Nostrils, they must often smell to Vinegar. But a Collyrium of Juyce of *Knot-grafs*, and *Shepherds pouch*, *Sumach* seeds and *Camphire* formerly praised, will work more effectually; let the tent be often moistened therein, and put up into the Nostrils. If notwithstanding, the Pox do grow within the Nose, they quickly become hard Scabs, which are often to be anointed with Oyl of sweet Almonds, that they may the sooner fall off. And finally, if an Ulcer happen in the Nose, it must be dressed with a Liniment of the Oyl of Egg-yolks and juyce of *Plantane* stirred in a Ledden Mortar.

To preserve the Face, some wash it with *Rose*-water and other Astringents, Which I cannot approve of: for a great part of the impurities flow unto the Face. For the Skin thereof being long, loose & soft, is very fit to receive Excrements. Wherefore if those impurities which Nature sends thither, be repelled, being retained within, they may cause great hurt; and therefore the motion of Nature is no ways to be hindred. But this ought to be the Physitians care, to hinder that the Pox which break out in the Face, do not leave behind them *Pits* and *Scars*, which doth often deform the Countenance.

And

And this he shall in good measure perform, if when the Pox are ripe, and are high and white in the middle (which is wont to fall out upon the Ninth day of the disease) he cause them to be anointed with a Feather twice a day with Oyl of sweet-Almonds, drawn without fire, until the Crusts fall off. For by this Medicine the Acrimony of Choler is tempered, the ripening of the Pox is hastened, and the falling off of the Crusts furthered; which otherwise sticking fast, doth exulcerate the Skin more deeply, by reason of the Quittor which lies under them. Oyl of Nuts new drawn without fire, mixed well with a like quantity of Rose-water, till they come to the form of a Liniment, is excellent for the same purpose.

If by neglecting the Remedies aforesaid, or through the extream malignity of the humor, there remain pits and pock-holes, all diligence must be used to repair the same. Which notwithstanding is extream hard to do perfectly; although many have taken great pains thereabout to gratifie Virgins and other Women, who are exceeding careful to preserve their Beauties. Among infinite Medicines recorded by Authors to this intent, I shall propound the choicest.

And in the first place, Oyl of Egg-yelks does nourish and ingender Skin, and therefore is very convenient to fill the pock-holes.

Weathers Suet fresh and new, melted and done, cut with a Feather, is effectual to the same purpose.

But the filthiness of pock-holes is much amended, if they be washed first with Yarrow water or Cows-dung-water distilled in May, and then anointed in Mans-Grease.

Forestus does much magnifie this following Oyntment:

Take Oyl of sweet-Almonds and white Lillies, of each one ounce: Fat of a Capon three drams: Powder of Peony-Roots, of Orris and Litharge of Gold, of each ten grains: Sugar Candy one scruple. Mingle all well in a warm Mortar, strain them through a Cloth, and anoint the Pock holes therewith morning and night. And afterwards let them be well washed with Water distilled out of Calves-feet: and when that is not at hand, use the Water of Tarrow instead thereof.

Neither must I omit that which many Practitioners do teach, viz. That when the Pox be ripe, they must be bored through with a golden or a silver Needle, lest the Quittor tarrying long in them, should leave holes in the part. Which Practice is notwithstanding now in a manner grown out of use, since Experience has taught, That the Pox being bored are longer in healing, and do longer hold their Crusts, because of the weakness of Natural heat, caused in the part by boring, whereby more deformed Scars are left behind. And therefore it is better to abstain from this boring, and to commit the Evacuation of the Quittor, to Nature alone.

To conclude this Cure, I shall subjoyn how those dispositions of Itching and Exulceration which happen to persons that have the Small-Pox, may be remedied.

And in the first place, When the Small-pox come forth, or when they begin to ripen, sometimes an huge pain or itching doth afflict the patients; especially in the Palms of the Hands and Soles of the Feet, because the thickness of the Skin in those parts hinder the Eruption of the Pox.

Which Symptom you shall help, if you cause those parts to be held in hot water, or Foment them a long time with an Emollient Decoction. But when there is great Itching in the Face, which compels the Patients to scratch, whence great deformity and foul Scars follow; use this following Remedy:

Take Leaves of Pellitory of the Wall one handful; Flowers of Chamomel and Melilot, of each half a pugil. Boyl them in a pint of Scabious water; To the strained Liquor add three ounces of Honey-suckle-water. With this Liquor hot, often let the Itching Pox be moistened, by dipping a thin Rag or Cotten Wool therein, and so applying the Liquor gently to them.

Now the Ulcers which arise from deep and malignant Pox, are to be cured with *Unguentum album Rhasis*, or with an Oyntment of Lead made after this manner:

Take Calcined Lead two ounces: Litharge one ounce: Cerus washed and Vinegar, of each half an ounce: Oyl of Roses three ounces: Honey of Roses one ounce: three yelks of Eggs: Myrrh half an ounce: Wax as much as shall suffice. Make all into an Oyntment.

F I N I S.

And this is all in good measure performed, if when the Boil is ripe, and ere high and white in the middle (which is wont to fall out upon the fourth day of the disease) he could them to be anointed with a better twice a day with Oil of Olive. Almost all the Boils which are cured by this Ointment, the Boil is hardened, and the skin over the Boil is hardened, which otherwise being soft, and exulcerate, the skin more deeply, by reason of the Ointment which lies under them. Oil of Olive is now drawn without the mixed well with a like quantity of Rose-water, till they come to the nature of a Liniment, is excellent for the same purpose.

In by applying the Remedies afore said, or such of the extreme malignity of the humor, there remain raw and peck-holes, all which must be kept to repair the same. Which may be performed by the use of the Ointment afore said, which is good for the same. And in this place, Oil of Egg yolk does not only ingender Skin, and therefore is very convenient for the peck-holes.

Westerns Sweetbread and new, melted and done out with a little Wine, is good for the same purpose.

But the kind of peck-holes is much a kind, it may be washed with White-wine water or Cow-water distilled in May, and a little more of the same.

Take Oil of Sweet-almonds and mix it with a little of each of the following Ointments. Powder of very fine Root of Marsh-mallows, and of each of the following Ointments. Powder of very fine Root of Marsh-mallows, and of each of the following Ointments.

And in this place, I shall mention a little more of the same. And in this place, I shall mention a little more of the same. And in this place, I shall mention a little more of the same.

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L O N D O N :

Printed for George Sawbridge, at the Bible on Ludgate-Hill, 1678.

THE Printer to the Reader.

READER,

THY chearful acceptance of my former Endeavours in this kind for the good of my Country, hath encouraged me, though with great Care, Labour and Cost, to present thee with the Learned, Judicious, and Worthily Renowned Riverius his Works of Physick. He was an Author lately living, and sufficiently known: And his Works will speak for themselves, and praise him in the Gates.

And if thou shalt shew a friendly Countenance to this worthy stranger, who now speaks English, I shall be thereby encouraged by all other means to study to promote thy good by bringing thee more acquainted with this, and other excellent Authors.

And whereas some, either out of envy, or mis-understanding, do condemn Works of this Nature, published in our Mother Tongue, alledging chiefly, That such Books encrease the number of Empericks, are a hinderance to learned and able Physitians; also occasion some to hurt themselves by rashly practising on their own Bodies. I shall answer to these Objections in order.

First, as for Empericks; These Books, and such as these published in English, are so far from making more Empericks, that they will spoil those that are, and make that we shall have fewer of them. For an Emperick being one that gives physick Hab Nab (as we use to say) relying only on Experience, and what he hath seen done before him, not being able to give any reason touching the Disease, its Cause or Cure; These Books will teach such persons how to go upon good grounds, and to be able to give a solid Reason for what they do, and of Empericks make them Rational Physitians, if they be men of good natural parts, though they be ignorant of all Tongues but their Mothers.

As for the hurt which is hereby pretended to be done to learned Physitians, it is a meer imagination, and no learned Physitian that bethinks himself well, will so judg. For the use of these Books respects chiefly the Poor of this Nation, together with Seafarers, and Soldiers. But for the Rich that have Money to spare, and bide at home, no otherwise (in point of Practice) than for an honest Curiosity and delightful Speculation. What rich man is there so mad, who reading a Chapter in these Books, and seeing what a world of Considerations and cautions do belong to the knowledg and orderly cure of every Disease, but will be more fearful than ever he was before to commit himself to the Cure of any but a learned Physitian. Now it is not by the poor, but by the Rich, that the learned Physitian maintains himself; the poor are but a trouble to him; only before such Books as these were extant in the English Tongue, conscience (sometime) forced the learned Physitian to take care of the poor, because the unlearned were wholly unable: Whereas now there may be found Industrious men that know no more Languages than their Native one, who may in a rational way contribute to the Necessities of the poor. Nay, these kind of Books are profitable to the learned Physitians; for many of the Gentry, especially of the Ladies and Gentlewomen, viewing the state of their own bodies in such Books as

The Printer to the Reader.

these (as in Looking-Glasses) will perceive certain Diseases in themselves, either now in being, or likely ere long to seize upon them, which otherwise they would never have so much as dream'd of; and thereupon crave the Advice and Assistance of the learned Physitian.

Also the Ladies and Gentlemen being well read in such Books as these, will better know how to demean themselves towards their Husbands, Children, or other Relations and Friends in their respective Sicknes in point of ordering them, and will be more apprehensive of the Physitians Directions, and so better able to practise them; also more capable of his Reasons, and Prognosticks, and so more confident and cheerfully obedient. All which will very much advance the Cure, and consequently the honour and Gain of the learned Physitian: for as Hypocrates notes in his first Aphorisme, It is not enough towards the Cure, that the Physitian do what is fitting, but the bystanders and friends of the sick must play their part, or all will not be well.

And in the third place, whereas it is objected, That people reading these Books, will practise upon themselves, and hurt themselves.

I Answer, If they do, they have none to blame but their own folly; for it is not the intent of the publishers of these Books, that every one that can read English, should dare take of their own Head such Medicines as are described in the said Books. But our intent is, That where in the Country there is no learned Physitian at hand; at Sea, in the Kings and Merchants Ships, where the Chyrurgeon is compelled to act both his own, and the Physitians part; In Armies and Leguons, &c. an ingenious and diligent Chyrurgeon, Apothecary, or any other that hath from his youth been exercised in these kind of studies, and conversant about the sick, may attain such a competent knowledge in the Causes and Methodical Cure of Diseases, as they may with honour to themselves, and profit to the sick (by Gods blessing) supply the place of a more learned Physitian. For the use of such persons, these books are intended, and for diligent Midwives; and not that every fool should turn Physitian, or that every Reader should tamper with him or her self.

Also divers Honourable Ladies and Gentlemen, that out of a truly Christian and Charitable Disposition have not disdained, but counted it a great Honour to be helpful to the Poor in the time of their sickness, may by the perusal of these books and the like, confirm and encrease their knowledge, and become honourable Instruments in the Hand of God, of much relief and comfort to many poor distressed Creatures in their respective Countries and places of Habitation.

*

Farewell.

The

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The

I

THE
First CENTURY
OF THE

Medicinal Observations,

And Rare Cures of

LAZARUS RIVIERUS,

Councillor and Physician to the King, and Pro-

fessor of Physick in the University of MONTPELIER.

The I Observation or History of Famous and Rare Cures, &c.

Of the Stoppage of the Urine.

MR. Anthony Mestre, a Gentleman sixty years Old, of a Sanguine Constitution, and a strong habit of Body, having in the Summer Travelled by long Journeys betwixt Paris and Montpelier, he drank down abundance of Drink to quench his Thirst, caused by the hot Weather. And three or four daies after he came to Montpelier, he fell into a total stoppage of his Urine; for the Cure whereof, he sent for an ancient Physician, who three days together combated this stubborn Disease with sundry Remedies, as Clysters, Fomentations, Baths to sit in, Liniments and Diureticks. Finally, On the third day, when nothing else would do, a Catheter was thrust up into his Bladder, and no Urine came away; whereupon the Physician being terrified, and despairing of the Patients Life, desired to have another called to consult with. I being sent for at the Evening of the third day from the first stoppage of his Urine, and hearing what had been done before, I enquired if the sick man felt any pain in his Loyns or Share, or had formerly had any fits of the Stone in the Kidneys. He told me he had no pain in the aforesaid parts, nor had he been ever troubled with Nephritick pains, nor had ever voided any Stones or Gravel. All which diligently considering, I judged that this suppression of Urine depended upon no fault of the Kidneys or Bladder; but rather upon the stoppage of the Emulgent Veins, caused by a multitude of Humors; for Galen in the first Book of his Method, Chap. 2. makes a two-fold cause of Obstruction, viz. Multitude and thickness of Humors. In respect of a Multitude, the Vessels too much filled and distended, cannot contract themselves, so as to cause Expulsion. Which is manifestly seen in the Bladder, which being above measure distended by long retention of the Urine, can very hardly void the same, because it cannot contract it self. Being stedfast in this Opinion, I propounded to have a Vein opened, and

store of blood taken from him; which when the former Physitian consented unto, there was a pound of blood taken away. Now scarce an hour was past after the blood letting, when the Patient felt the Urin flowing down from his Kidneys, by the Uretors, into the Bladder, and said, he knew he should quickly make water; and not long after he called for the Chamber-pot, which being filled at one pissing bout, other vessels were brought, so that within an hours space he voided many pints of Urine. And so he was perfectly freed: nor would he take the purge prescribed for him against the next day.

For the knowledg and cure of the diseases of the Kidneys, Reins and Bladder; see more in the fourteenth Book of the Translation of the practice of Physick; and *Riolanus Anatomy*, both of the last Edition in English.

The 2 Observation or History of Famous and Rare Cures, &c.

Suppression of the Courses.

AN Outlandish Woman of a sanguine Complexion, was troubled with many Infirmities, arising chiefly from Suppression of her Courses: for the Cure whereof, when such Physitians as were at hand had applied many Remedies, and the Infirmities proved unconquerable: Counsel was asked of the Physitians of *Montpelier* by letter. And in the Relation, her ordinary Physitians had chiefly observed this one thing, which made them exceedingly wonder, and of the reason whereof they desired to be informed, viz. That as often as a Vein was opened in her Ankle, her Courses stopt: but when she was let blood in the Arm, they flowed more plentifully; which accident seemed to contradict the usual doctrine of Physitians, which says, that the opening of the lower Veins does provoke the flux of the Courses; but bleeding from the upper Veins does stop the same. To which Doubt, the Physitians of *Montpelier* made answer, that this accident did very well agree with reason, and the Doctrine of *Galen*: For seeing that Woman was plethorick, and her Courses stopt by reason of over-great plenty of blood, which did so distend the Vessels of the Womb, that they could not sufficiently be compressed, blood being drawn to those Vessels by the opening of the lower Veins, the Obstruction was encreased. But when as blood being drawn from the upper Veins, the course of blood was drawn back from the Veins of the Womb, so that their fulness and distention was lessened, then they did more contract themselves, to perform that natural and ordinary expulsion which is wont to be performed by the Womb, which reason was backed by the forecited Authority of *Galen*, out of the 10. Book of his Method, Chap 2. Where he teaches us, that Obstruction is caused, not only by the thickness, but plenty of humors also. The Physitians therefore that were with her were advised, that they should abate her superfluity of blood, by taking a good quantity from her Arm: and that afterward they should draw the blood downwards, by opening the Veins of her Feet, especially about the time, when she was formerly wont to have her courses. To which were added other remedies that provoke the courses stopt: For Womens Diseases, see *Riolanus*, and the 15. Book of the practice of Physick, and the Directory for Midwives.

The 3 Observation or History of Famous and Rare Cures, &c.

The Cholick, proceeding from Choler.

THE Wife of *John Daumont*, a Stone-Cutter of *Montpelier*, being thirty yeats of age, was vexed with a Cholerick Cholick for eight moneths together, during which time she used divers Remedies prescribed by two several Physitians, who had her in hand one after another, but all to no purpose. Finally, desiring my advice, she was cured within five days, with these three Remedies following.

Take of the ordinary Clyster decoction one pint, Cassia new drawn one ounce, Hiera picra half an ounce, Honey of Violets an ounce and half, fresh Butter two ounces, Salt half a dram; mix them, and make of all a Clyster. Let it be given at a seasonable hour.

Take

Take green Polypody and Carthamus seeds, of each one ounce and half; tops of Epithymum, and of dried Thyme, of each a pugil; Anis seed, Fennel seed, Caraway seed, and Carduus Benedictus, of each two drams; Senna cleansed one ounce and half, Gummy turbit half an ounce, Cinnamon one ounce and half, Chrystal of Tartar two ounces, Sal gem half an ounce. Beat all, and fill therewith the Belly of an old drawn Cock; and then boyl him and them in three qarts of Water, and one of White-wine, till the flesh of the Cock be parted from his bones. Of this broth, let her take six ounces or seven every day in the morning, continuing the same seven or eight days, if need require.

Take Conserve of Wormwood and Maidenhair, of each half an ounce; Citron Peels preserved six drams, one preserved Myrobalan, Confection of Alkermes thres drams, apitive Crocus Martis two drams; powder of the Electuary of Diarrhodon Abbatis one dram and an half, Spikenard one dram, with Syrrup of preserved Citron peels, make all into an Electuary, of which let her take every day one dram and half two hours before Supper, drinking after it, a little Wine tempered with a good quantity of Cichory Water.

Take Aron Roots, prepared according to the prescription of the *Dispensatory of Quercetanus*, half a dram; the Root of Acorus and Pimpernel, of each two drams; Cinnamon two scruples, Salt of Wormwood half a dram, Sugar of Roses to the weight of all the rest. Make all into a powder, of which let her take two ounces every day three hours after Supper, drinking after it a little Wine tempered with Cichory Water as afore said.

When she had used these Remedies four days together, and had been afflicted after the same manner with pains of the Cholick, which was wont to return every day once or twice, with most bitter torments, persevering two or three hours together, on the fifth day about noon, when the purging broth should have wrought its operation, she was taken with so great a Torment, as it seemed insufferable, and she said she never felt the like, which nevertheless went wholly away within the space of an hour, and never returned any more: And so the Patient was wholly freed from that cruel Disease. 'Tis credible, that the sharp and Cholerick matter deeply fastened in the Coats of the Guts, or of the Peritoneum, and thickned by long abiding there, was attenuated by the Medicaments, and the wayes opened by which the matter was voided forth.

For the Cholick, and other Diseases of the Guts: See the tenth Book of the Practice of Physick, and *Riolanus*, both of the last Edition.

The 4. Observation or History of Famous and Rare Cures, &c.

Sciatica or Hip-gout Pains.

John Ranquier, A Porter of *Montpelier*, in extream cold Weather, had been in the Water with his Legs many hours together; whereupon he was taken with a mighty pain in his Huckle-bone, which reached unto his Thigh and Leg, so that he could not go at all.

After a Clyster, he was let blood in the Arm of the same side: The following day he was purged with a very strong purgation. For three days together following, he took every morning eight drops of Spirit of Treacle with Carduus Water, and did sweat plentifully, and so all pain was taken away. The manner how to make the Sudorifick spirit of Treacle shall be taught in the following Centuaries.

The 5. Observation or History of Famous and Rare Cures, &c.

The Green-sickness with Cholick Pains.

The Maid-servant of Mr. Peter Desflours, an Advocate of *Montpelier*, was troubled with exceeding great Obstructions of her Liver and Spleen, so that she was not able in that regard to go up a pair of stairs, being oppressed with extream weariness and shortness of breath. Moreover she had extream thirst, her Courses were stopt, her Hypochondria stretch, and

her whole Body was of an ugly colour. But above all, she was horribly tormented with Cholick pains, which came by fits twice or thrice in a day. For the Curing of which Diseases, these following Remedies were used.

In the first place, because her condition could not bear long taking of Physick, I ordered her only one Flegm-purging potion, premising blood letting the day before: and I caused her to take the same potion again three daies after.

Afterwards she took every day in the Morning half an ounce of Spirit of Tartar, with a Decoction of common Wormwood. After the second taking whereof, the Cholick pains wholly vanished; and continuing this Medicament ten days together, she was restored to perfect Health.

For Drink, she used White Wine wherein steel hath been infused, which I ordered her to continue for some time.

For the Cholick and Green-sickness. See the tenth and fourteenth Book of the Practice of Physick, and *Riolanus*, both of the last Edition.

The 6 Observation or History of Famous and Rare Cures, &c.

The Jaundice.

THe Son of Dr. *Troussellier*, Dr. of the Civil and Canon Laws, dwelling in the Town of *Aymargnat*, being fourteen years old, was troubled with a most filthy Jaundize, which died his whole Skin as yellow as Gold. For whom my self and Dr. *Phachequus* in consultation, prescribed these following Remedies.

Take Senna cleansed half an ounce, Annis-seed one dram, tops of Roman Wormwood and leaves of Agrimony, of each half an handful; Liquoris scraped and sliced two drams, Broom-flowers and Cichory-flowers, of each half a pugil. Boyl all to three ounces; In the strained Liquor, dissolve four scruples of Rubarb, infused in Wormwood Water, with a little Cinnamon, and strained forth of the Electuary *de Succo Rosarum* [see *English Dispensatory*] two drams, Syrrup of Roses solutive one ounce: make all in a potion, let her take it in the morning, and order her self accordingly.

Take Madder Roots half an ounce, Celandine Leaves one handful, Centuary tops one pugil, Cinnamon half a dram, Saffron half a scruple. Infuse them all night with eight ounces of White-Wine; To the strained Liquor, add half an ounce of white Sugar, let her take it in the morning five days together, after the potion aforesaid. And after the use of this Remedy, let her take again the purging potion before prescribed. With these Remedies alone she was perfectly Cured.

Of the Jaundice, see more in the Eleventh Book of the Practice of Physick, of the last Edition.

The 7 Observation or History of Famous and Rare Cures, &c.

A lasting Redness of one Eye.

A Pretty fair young Damosel, called *Antometa de Lois*, Eighteen years of Age, for three or four years together had a flux of Rheume into her left Eye, wherewith the whole Eye, Eye-Lids, and parts round about, were affected with redness and swelling. By means whereof her Face was deformed; The Disease was most violent in Autumn, and continued all the Winter, nor could it be allwaged either by blood-letting or purgation with Potions and Apozemes or Vesicatories, and very many other Remedies, which were frequently applied, but all in vain.

Finally, at the beginning of Autumn, the Disease returning with like violence as formerly, it was thought fit to use more potent Remedies, for the rooting up of this stubborn defluxion. And therefore instead of the Apozeme, which she had formerly used, I prescribed opening and

Diaphoretick

Diaphoretick Pills, of the Salts of Tamarisk and Wormwood, and the Magistery of Tartar, with my Diaphoretick Powder; whereof she took two in the morning three hours before dinner, and as many before Supper, four days together. On the fifth day she took half a dram of universally purging Pills, by which she was excellently well purged, whereupon the redness and inflammation began very much to abate. She took again the opening Pills four days together, and on the fifth she was excellently purged with the universal pills aforesaid; and a few days after, the redness of her Eye perfectly vanished, and returned no more. The Basis of the universal Pills aforesaid, you shall find in my Practice of Physick, in the Chapter of the Falling Sickness.

In this Cure, I did not let the patient Blood, though she were of a sanguine Complexion, because she had bled a few days before both in her Arm and Ankle Veins. But the Cure being finished, I prescribed her a Decoction to move her Courses, because she had them not kindly. Which Decoction was as follows.

Take Marsh-Mallow and Valerian Roots, of each one ounce; Fenugreek Roots, Asparagus Roots and Smallage, of each six drams; Leaves of Betony, Pimpernil, Ceterach, Mugwort, Savin, of each one handful. Boil all in a Decoction of red Vetches to a fourth part: In the strained Liquor, dissolve three ounces of white Sugar. Let all be made into a clear Apozeme, Aromatized with two drams of Cinnamon, and one scruple of Saffron, for four morning Doses, to be taken four days before the coming of her Courses.

For the Diseases of the Eyes, read that matchless piece, the Second Book of the practice of Physick. And *Riolanus* Anatomy, both of the last Edition

The 8 Observation or History of Famous and Rare Cures, &c.

Venerial Pains.

A Renowned young man, Mr. N. being twenty five years Old, Skilful in the Laws and Affairs military, was vexed with venerial pains, which tormented him continually night and day for four years together, especially in his left Leg, from one end thereof to another. For a whole year he wore *Vigos* plaister made with Mercury on his said Leg, by the advice of Chyrurgeons, on whom he solely depended for Cure. At last by the advice of many physicians, my self being one, he used a sweating Diet-drink twenty days together, and had many Topick Medicaments applied to his Leg, viz. Fomentations, Fumes, Oyntments and Plaisters; all which did him no good. He never leaves soliciting me alone, that I would do yet somewhat more to free him from this inveterate Malady. To satisfy him, therefore, I give him for a month together my antivenerial Medicament made up into pills, of which he took two in the morning, and as many in the afternoon, three hours before Dinner and Supper. Every fifth day he was purged with the Catholicks Pills, and so by little and little the pain went away.

For Venerial pains, read my Translation of *Sennertus*, of the French Pox.

The 9 Observation or History of famous and Rare Cures, &c.

The Great Pox.

THe famous man Mr. N. being fifty years Old, had been troubled with the Whore Masters, Pox one whole year together, which would not give way to ordinary Remedies: but with the two Remedies aforesaid, viz. The Antivenerial Antidote, and the Catholick Pills used twenty days together, he was well recovered.

For the Great Pox, see my Translation of *Sennertus*, on the French Pox.

The 10 Observation or History of Famous and Rare Cures, &c.

A Catarrh, with other Symptomes.

THE Noble Gentleman Mr. *Gulielmus Hebrardus*, Lord of *Mirawaulx*, thirty years of Age, of a Flegmatick and melancholick Constitution, was troubled with a stubborn Infirmary attended with many Symptomes; such an extream heaviness of his whole Body, that he could not sometimes move himself; with so extream a weakness, that he was ready to faint away. Also in the Afternoons and in the Evenings, a thin and sharp fluxion fell down upon his Lungs, which caused a very troublesome dry Cough, which made him exceedingly fear a Consumption, which rendred him exceeding pensive, seeing two of his Sisters had died of Consumptions, and himself had been troubled with spitting of blood. And the worst of all was, that he would not advise with Physicians, because he loathed all kind of Medicaments, so as that he vomited them up again. But this Infirmary growing every day worse and worse, the worthy Gentlewoman his Wife sent for me. Having heard the story of his Disease, I propounded many Remedies ordinarily used, which he being not contented with, I promised him very well tasted Medicaments, and such as should restore him to his former health. He being willing upon this condition to follow my Advice, in the first place I prescribed these following broths.

Take Roots of Bugloss and Asparagus, of each one ounce; Leaves of Agrimony, Burnet, Scabious and Maiden-hair, of each one handfull; Cream of Tartar one dram. Boyl all with a quarter of an old Cock, and make Broth, which let him use six days together. With which he was purged downwards twice or thrice a day, and said he found himself somewhat better. Afterwards I prescribed him this following Powder.

Take Salt of Tamarisk, Magistery of Tartar, and Milk of Sulphur, of each one dram. Mix them into a powder; of which let him take half a dram every morning, with some of the foresaid broth. Having used this Remedy, six days together, on the seventh he was purged with this following powder.

Take Senna and Cream of Tartar, of each one scruple; Diagridium eight grains, Cinnamon four grains, of my specifick Cephalick powder five grains; with this Medicament he voided an incredible quantity of Flegmatick Humors, not only by Stool, but also by Vomit, without any trouble, so that the Humors came as it were of themselves like Whites of Eggs. Also they came out of his Brain into his mouth in so great quantity, that it was as much as the Patient could do by hauking to bring them all out: Also he rendred his Urine much more plentifully than formerly. The same day he was so eased and cheared, that he protest he was cured. But because his whole Body was filled with abundance of Humors, I ordered him to take the foresaid powder again for six days together, and to purge again upon the seventh day, which advice he diligently followed, and the success was as before, only he voided nothing near so much excrementitious matter as formerly, because it was by the former Purgation abated: after his being the second time purged, he went into a Bath made of Barley, Almonds and cold Seed, being luke-warm, for two days together morning and evening, to moisten his over heated and dried Bowels. After the Bath, he used the foresaid powder three days together; and finally, was again as formerly, perfectly cured.

For the Knowledge and Cure of Catarrhs, see the first Book of the Practice of Physick, and *Riolanus* Anatomy, of the last Edition.

The 11 Observation or History of Famous and Rare Cures, &c.

An Old Head-ach with other Infirmities.

A Choice Virgin, *Margaret de Varanda*, Daughter to the Learned man Dr. *David de Varanda*, a most Renowned Lawyer, and Professor of the Civil and Canon-Laws, in the University of *Montpelier* deceased; being twenty years of age, was troubled with a most sharp

sharp Head-ach, with a stretching on the right side under the short Ribs, Belly-ach, and other Symptomes. She used every year many Remedies, as Potions, Apozems, Pills, Baths, Vesicatories, and many other things, which did her little good: also she was not much bettered by the use of steel, though all these Symptomes depended upon Obstructions and bad humors quartering in her Hypochondria to her Head. Finally, at the beginning of the Spring, in the year 1625. I prescribed her these following Remedies.

Take Conserve of Wormwood and Maiden-hair, of each one ounce; Conserve of Elicampane Roots half an ounce, salt of Tamarisk, Magistery of Tartar, and my specifick aperitive powder, of each half a dram; with syrrup of Maiden-hair make an Opiate, of which she took two drams every morning, two hours before she did eat.

Every fifth day she was purged with Catholick pills [such as our *Extractum Rudii*, or *Extractum Catholicum* in the London Dispensatory, but not so strong] to the quantity of two scruples, and within fifteen days she was perfectly cured.

For Diseases of the Head and Head-ach, read the first Book of the practice of Physick, and *Riolanus* Anatomy, and *Johnstons* Idea of the last Edition.

The 12 Observation or History of Famous and Rare Cures, &c.

Cholick Pains.

Stephen de Veranda, Brother of the Damofel aforesaid, eighteen years old, was tormented some days together with most grievous Cholick Pains. Coming to see him, to abate the most violent pain which he was scarce able to endure, I presently prescribed him six grains of *Laudanum Opiate*, which in the space of two hours took away all his pain; he Supt liberally, and slept all night, having passed many nights before without any rest.

The day following he rose in the morning, and went about his ordinary business; nor would he take the Purge which I had prescribed, to remove the cause; howbeit his pain returned no more.

The 13 Observation or History of Famous and Rare Cures, &c.

Cholick Pains.

The Renowned Mr. Stephen Deumoy, the Kings Councillor in his Court of Montpelier, being tormented with Cholick pains, and having used other Remedies in vain, took half a dram of *Pilule Catholice*, wherewith he was excellently well purged, and perfectly cured of his Cholick the same day.

Those that desire to know and Cure these Diseases, ought to read the Idea of Practical Physick, *Riolanus* Anatomy, and *Riverius* practice of Physick of the last Editions.

The 14 Observation or History of Famous and Rare Cures, &c.

An Old Head-Ach.

The worthy Wife of Mr. William Dortoman a renowned Advocate, being of a melancholy Constitution, was troubled many years together with a most grievous Head-ach, which held her in a manner perpetually; for the cure whereof an almost infinite company of medicaments were prescribed by sundry Physitians, which doing no good, she desired me also to prescribe for her, which I did after this manner.

Take Conserve of Worm-wood, Maiden-hair and Elecampane Roots, of each one ounce; Salt of Worm-wood and Tamarisk, of each one dram, with syrrup of Maiden-hair, make all into

an Electuary. Of which she took two drams every day, two hours before meat. Every fifth day she took two scruples of *Pilula Catholica*, with which Remedies continued ten days together, her grievous and long lasting pain was Cured.

The 15 Observation or History of Famous and Rare Cures, &c.

Vomiting in a Malignant Feaver.

Lawrence Bosch, a renowned Apothecary of *Montpelier*, was grievously sick of the Purple Feaver in the month of *December*, 1622. after the Siege of *Montpelier*; and among other Symptoms, he was extremely troubled with vomiting up of all that ever he drank, as soon as ever he had taken it in; Water, Wine, Juleps, Emulsions, he vomited all; Only he retained his Broths. His Feaver had raged for four days together, with a mighty burning, and a thirst which no drink could quench. His inner parts were so dried and burnt, that his Tongue was extream black and parched. Which grievous Symptome was by my advice removed with this easie Remedy.

Take salt of Wormwood one scruple; fresh Juyc of Lemons one spoonful; They were mingled in the spoon, and so given him. Presently his vomiting was stopped, and afterwards he drank what he pleased, and never cast it up.

The 16 Observation or History of Famous and Rare Cures, &c.

A Feaver with Worms.

The Daughter of *John Niwells* a Proctor, twelve years old, had a continual Feaver, with a most troublesome flux of the Belly, by which she voided ash-coloured Excrements, such as are commonly seen to proceed from persons troubled with worms.

There were prescribed for her at first detergent Clysters made of sweet things; also drinks ordinarily given against Worms, and powder of Rhubarb twice repeated, by all which she had no ease: nay thereupon her Feaver and Loosness grew worse, so that they began to fear her death; because she was of a tender Constitution, had been long sick, and was exceeding pale-faced: At last I prescribed her this following Julep.

Take Roots of Sorrel of Grass, of Cichory, of each one ounce; Leaves of Endive, Cichory, Sorrel, Purslain, and St. Johns-wort, of each one handful: Scordium and Roman Wormwood, of each half an handful. Of the three Cordial flowers, of each one pugil. Boyl all in Barley water, till a fourth part remain. In the strained Liquor dissolve four ounces of Syrrup of Lemons, and some drops of Spirit of Vitriol to cause a gentle tartness. Make of all a Julep for four Doses, to be taken morning and evening.

In those two daies space, in which she took her Julep, the Feaver and Loosness went quite away, and she was perfectly Cured. If any wonder this Disease was Cured with so easie a Remedy; let him know, that St. Johns-wort and Scordium have a wonderful force against putrifaction, and hinder the generation of Worms, and kill them when bred. Yea, and those Herbs laid up with Cloths, do hinder the breeding of Moths; and I can truly witness, that I have used these kind of Juleps, in an almost innumerable company of Children troubled with Worms, with most happy success.

For the forementioned Disease, read the seventeenth Book of the Practice of Physick treating of Feavers. And *Riolanus* Anatomy, and *Johnstons* Idea of the last Edition, Englished by me.

The 17 Observation or History of Famous and Rare Cures, &c.

The Jaundice.

A Student of Chyrurgery who dwelt at that time with Mr. *Thierry Haguénor*, a most renowned Chyrurgeon, who had long Practised the Art of Chyrurgery, was sick of the Jaundice,

I pre-

I prescribed him a Choler-purging potion, and then the Infusion for the Jaundice described in the sixth Observation, for five days together; and in conclusion, the Choler-purging potion a gain, with which he quickly recovered.

The 18 Observation or History of Famous and Rare Cures, &c.

Of the Jaundice.

THE eldest Son of Mr. *Demanse*, being born when his Mother had a Tertian Ague, had also four fits of the said Feaver or Ague presently after he was born, and afterwards fell into the Jaundice, so that his whole body was died all over with a deep yellow, which exceedingly terrified his Parents: now he was only two months old, when I was called to the Cure. I was in great doubt what to do in so tender a Body: At last I prescribed this following Syrrup.

Take Roots of Madder, and the larger Celandine, of each two ounces: Leaves of Celandine, Centaury and Roman Wormwood, of each two handfuls: Cinnamon two drams, Saffron half a dram. Boyl all in Fountain-Water to a pint; In the strained Liquor, dissolve a pound of Sugar, and boyl it to a Syrrup. Of this he took a small spoonful every morning for twenty days together, and was perfectly cured, and is at present perfectly well, honourably supplying the place of his deceased Father.

The 19 Observation or History of Famous and Rare Cures, &c.

Of a Pleurisy, and the Feaver Synochus with putrifaction.

ON June the 10. in the year 1630. At *Grenoble*, Msr. *De Baissuzel*, born of a Noble Family, being twenty years of Age, of a Sanguine Complexion, about the evening began to be troubled with a pain in his left side without a Feaver. The same day a carminative Clyster was given him, and a discutive bag was applied to the pained part. The day following in the morning he began to be Feaverish, his pain remaining, which troubled him most when he lay on the other side. He was Clystered again, and blooded in his left Arm; and a Julep was given him of red Poppy Water, Syrrup of Violets, and *Sal prunellæ*. An emollient and Carminative fomentation was applyed to the pained side, and afterward Unguentum Dialthea with discutive Oyls, his Blood appeared exceeding impure; in the Afternoon his Feaver was stronger than at other times: He was let blood again, also his Julep and Topick Remedies was repeated. On the third day in the morning he was again let blood in two porringers, the one of which was corrupt enough, the other more pure; the Julep and Topicks were continued. For drink, he used from the beginning a Pisan drink of Barley and Liquoris, and all his food was Broths, which were sometime altered with cooling Herbs. The same day, afternoon, his Feaver was exasperated; Blood was taken out of the same Orifice, to the quantity of six ounces, which seemed pretty good. With the morning blood letting, the Pain of his side went quite a way, which was never very vehement, nor had any Cough, Shortness of Breath, or Spitting of blood joyned therewith: which shewed that it did proceed either from a light fluxion, or from sharp vapors, seeing also that it came before the Feaver. And therefore it was a Primary Feaver, of that kind which we term *Synochus*, and did not depend upon the Pleurisie. After his last blood-letting, seeing he was vexed with a vehement thirst and burning, I gave him to drink about a pint of cold Water, with twenty drops of spirit of Sulphur. Presently he felt a cold; all his belly over was covered with Cloths, & he sweat a little an hour after. Then he drank broth, and an hour after had a Clyster, which being come away, he fell into a new sweat so plentifully, that we was all over wet therewith; which being wiped off, he sweat again, but not so plentifully, and rested quietly all the night. On the fourth day in the morning he sweat again, and his Feaver was in great part abated. So on the seventh day he was quite freed from his Feaver, and being purged on the eight day, he needed no other Physick. In this Cure 'tis observable, that by the spirit of Sulphur given with Water, plentiful sweats were procured, which I have found by many experiments, having seen many Tertian

Agues cured with the same Remedy, being given in the height of the burning Fit, and when the Patient is most thirsty; by which plentiful sweats were procured, by which not only the Fit, but also the whole Disease was perfectly terminated. In a lesser quantity of Water, a less quantity of Spirit must be given, lest the Water become too tart.

The 20 Observation or History of Famous and Rare Cures, &c.

Of a Tertian Feaver or Ague.

MR. Berardus, a most Famous Apothecary at *Grenoble*, being fifty years old, in the month of July, 1630, was taken with an intermitting Tertian Ague, and being twice purged, and twice let blood, and never the better; he took my Catholick Pills on his well-day, and the day following had his Fit much more gentle. Afterwards before his next Fit, he took this small potion following.

Take Cichory Water three ounces, Salt of Wormwood half a dram, Spirit of Sulphur twelve drops; mix them. After this potion his fit came no more, but he was plentifully purged by Urine.

At the same time Msr. de Manissien, the Kings Councillor in the Parliament of *Grenoble*, being twenty four years of Age, after two Fits, was cured by being once let blood, without any other Remedy: now his blood was very hot and Cholerick.

The 21 Observation or History of famous and Rare Cures, &c.

Of the purple Feaver.

ON the 18. of June, 1630. I was called to *Grenoble*, to Msr. de Chaupoullay the Kings Advocate, who had been eight days sick of a continual Feaver, during which time he had been thrice let blood, and had taken a purging Medicament prescribed by his ordinary Physitian. As soon as I saw him, I found his pulse very frequent and unequal, which made me suspect it was a malignant Feaver; and causing him to be uncovered, I found his whole Body full of purple spots. His Urines were sufficiently good, and shewed some beginnings of Concoction.

I ordered many Cupping Glasses to be applied all along his back-bone, both without and with Scarrification, also Epithems, and that he should be anointed with *Mathiolus* his Oyl of Scorpions; also I gave him Confectio de Hyacintho in his Broths, and cooling cordial Juleps. For his drink he used the vulgar Pisan, wherein hearts-Horn tyed in a Cloath was infused.

These Remedies he accounted to the eleventh day of his Sickness, growing in the mean time every day worse and worse, till at last he was taken with Ravings and Convulsion Fits. On the said eleventh day he did sweat lightly, without any advantage. His Raving was joyned with a kind of stupidity; and therefore a Vesicatory was applied to his Neck, and Cupping Glasses to his lower parts. Instead of the former Juleps which were made of cooling and opening Roots and Herbs, these following were prescribed.

Take Barly one pugil, Bugloss Roots two ounces, Borrage, Burnet, Scordium, of each one handful: Citron and Sorrel seeds, of each half an ounce; Tamarinds two ounces, Flowers of Borrage, Bugloss and Red-Roses, of each one pugil; Dittamus half a pugil. Make a decoction in seven pints of Water, to a consumption of the third part. In the strained Liquor, dissolve one pound of white Sugar, and make it into a Julep. Of which let him take eight ounces morning and evening, adding to each Dose one dram of Sal prunella, and half a scruple of Spirit of Vitriol.

For his Drinks he had a tincture of Roses: In his Broths he took powder of Pearls, Coral, Ivory, Harts-horn and Bezoar-stone. But in the last days, when all the symptoms grew worse and worse, instead of the said powder, I gave him only a scruple of Bezoardicum mineral in all his broths. And because towards evening his Feaver, Ravings and Convulsion were wont to encrease upon him, I gave him this following powder.

Take

Take *Sal Prunellæ* half a dram, *Bezoardicum Mineral* one scruple; mix them, and administer them in *Carduus* water. On the thirteenth day was this Powder given him, and on the same day he began to take *Bezoardicum* aforesaid in his Broths, and his fit came not that day, but he was better all the night after; after midnight the same Powder was given him again. On the fourteenth day he was a little better, but without any Evacuation; On the fifteenth he was after the same manner; On the sixteenth there appearing concoction in his Urines, as there had appeared in the whole Course of his Disease, the Coction by little and little augmenting, I gave him a purging Medicament of two drams of *Senna*, one dram and an half of *hubarb*, infused in a cooling Decoction, adding to the strained Liquor, *Manna* and Syrrup of *Roses*, of each one ounce; with which he was gently purged. On the same day very many Pustules were observed to break forth like small Pox, tending to suppuration in great number about the Vesicatory, also sprinkled up and down upon his back, Loyns and Buttocks. On the seventeenth day the said Pustules were for the most part broken, and began to dry up.

But on the forepart of his Body about the Hypochondria and Breast, very small Pimples came forth, pellucid and Transparent, in an almost infinite number: the Feaver was very remiss, and his raving was much abated. On the eighteen day he slept almost continually night and day, until the twentieth day. He was purged again on the two and twentieth day, and after that the Feaver went quite away; and within a few days he perfectly recovered. Two years ago the Lord of *Rastencilers* was Cured of a very dangerous purple Feaver, chiefly with this Medicine. I gave in every draught of his ordinary drink, which was the vulgar Ptisan, one dram of *Sal Prunellæ*, and ten drops of spirit [*Not Oyle*] of *Vitriol*; by which the extream blackness and dryness of his Tongue, with a mighty Thirst, were in a few days taken away.

Read more of Feavers and Agues in that most excellent Book, the Practice of Physick, the last Book.

The 22 Observation or History of Famous and Rare Cures, &c.

Of a Tertian Ague.

MR, *de Chaune* on the 18. day of June, 1630. was taken at *Grenoble* with a Tertian Ague; and in the space of twelve days was once purged, and thrice let blood, and had many Juleps, so that within the said time he was freed of his Ague. Now this is worth observation in the foresaid Patient, that there never appeared any contents in his Urine, yet their Liquor in the declination was good and laudable in its colour and substance. The reason whereof was, that the Patient had been long troubled with Nephritick Diseases, by which means his Urine was strained of all its Crassitudes.

The 23 Observation or History of Famous and Rare Cures, &c.

Of Bleeding at Nose.

THe said Mr. *de Chaune*, having been long freed from the aforesaid Ague, was taken with so violent a bleeding at the Nose, that he was weakened thereby. For the stoppage whereof, many Remedies being used, this alone did the Cure, viz. Vinegar and water frequently snuffed up into his Nostrils, with which the flux of blood was suddenly stopped. Which flux breaking out again two days after, he used Vinegar and Water after the same manner as before, and it was presently stopped.

The 24 Observation or History of Famous and Rare Cures, &c.

Of a Malignant Feaver.

ON the 19. of July, in the year 1630. I was sent for to Grenoble, to the Son of Stephen Mercier, a Writing School-master, sixteen years old, sick of a Malignant Feaver: now he was in the fifth day of his Disease, being all besprinkled with violet coloured spots, with Raving Loosness, and other grievous Symptoms. He had been once let blood, and had used no other Remedies. I gave him two scruples of my Sudorifick powder, with twelve grains of Camphire, in four ounces of Cardus water. Being well covered, he sweat plentifully, and was in very good Case; his Ravings ceased, and his loosness was abated. The day following his Feaver was sufficiently strong, without any grievous Symptom: he was let blood, and the same day his Feaver went quite away.

The 25 Observation or History of Famous and Rare Cures, &c.

Of an old Gonorrhœa.

Mr. Chevillier, a Citizen of Grenoble, being thirty years old, and of a Sanguine Complexion, and troubled with a very old Gonorrhœa, asked my advice on the eleventh of July, 1630. I prescribed him in the first place a purgation of one scruple Mercurius Dulcis, with the same quantity of Pill Cochey the day after he was let blood. And after that a Bolus of a dram of powder of Rubarb, and three drams of Turpentine, which he took five days together, and was thereby purged three or four times each day. And finally, he used this following Water eight days together.

Take dried Mints three ounces, Lettice, Rue, Agnus, Castus, each two ounces and an half; Dictamnus Cusius ten drams, white Sugar two pound: Powder all, and add thereto five ounces of Venice Turpentine, and thirty ounces of white Wine, and distill them in Balneo Marie. Let the Patient take two spoonfulls every morning two hours before meat. And with these Remedies he was cured of this stubborn Disease.

The 26 Observation or History of Famous and Rare Cures, &c.

Of a Tertian Ague.

ON the 25. of June, 1630. at Grenoble, I was called to Msr. de Pontemeris thirty years old, a Knight of the Order of St. John, being sick of a Tertian Ague. He was then in his third Fit. But before those fits appeared, he had been some days Feaverish without any course of Fits. I prescribed him again the next day, which was his well-day, a scruple of the Calomelanos of Mayerne, and five grains of Diagridium in the form of Pills, with which he was lustily purged, and towards the evening he perceived an appetite to eat, which before he had not. On the day of his Fit, he took before it came, this following Julep.

Take Glyster water three ounces, Salt of Wormwood half a dram, Spirit of Sulphur one scruple: Make all into a Julep. This he takes two hours before his Fit, and being well covered, he sweat plentifully, and so was freed from his Ague.

The 27 Observation or History of Famous and Rare Cures, &c.

Of a Tertian Ague.

ON the 30. day of June, 1630. I was called to the Lord of Semiane, who had a Tertian Ague. He had nine Fits before, and by one of the Kings Physitians had been five times let

let blood, and had taken a Medicine made of the Infusion of Senna and Cassia: howbeit his Fits grew worse, and in them one Symptome did most of all trouble him, viz. a most sharp Head-ach, pricking and tearing the half of his Head only, like a Hemisrania. Presently I judged this pain to proceed from sharp vapors, arising from a Cholerick matter lodged in his Stomach, or the neighbouring parts, and therefore I prescribed him a purging Medicament of one ounce of Aqua Benedicta, with the Infusion of half an ounce of Senna; which purged him four times by stool, and gave him two Vomits; at the first Vomit, he cast up about a pound of Leek-coloured Choler; at the second a like quantity of Verdegrease-coloured Choler; and the following fit, he had no Head-ach at all. Then I gave him temperate opening Juleps, and purged him again with Senna, Rhubarb and Diacatholicum, and he was perfectly Cured.

The 28 Observation or History of Famous and Rare Cures, &c.

Of Worms.

The younger Son of M^r. Imbert, a Merchant of Grenoble, being about three years old, was many days vexed with a Loosness, and continual Stomach-sickness, with a most acute Feaver, which seemed to arise from Worms in the Stomach and Guts. Many Remedies were used in vain: And when the Child was in a desperate condition, I gave him twelve grains of the Calomelanos of Turguetus [Mayerne] and presently his stomach-sickness ceased, and he slept almost all the day; but at night a greater vomiting and loosness hapned than before. Among the stools were found a great quantity of bits of Worms putrified; he slept in the morning, and the whole day after, and vomited no more, and within twenty four hours the Feaver left him, and he had no further need of Physick.

The 29 Observation or History of Famous and Rare Cures, &c.

Of a Malignant Feaver.

Mr. De Beauboys, a young Courtier in the beginning of July, 1630. was sick at Grenoble of a Malignant spotted Feaver. I was sent for on the ninth day of his sickness; he had been eight times let blood, and refused all other Remedies; he had a grievous loosness, and sometimes raved. On the tenth day his Feaver and loosness were more intense, his pulse did intermit, he let his Excrements go from him into his bed: On the eleventh day he was in the same condition; On the twelfth he was worse: On the thirteenth he seemed at the last cast, and that the pangs of Death were upon him. I caused a Vesicatory to be applied to his Neck, and gave him to drink in the morning two scruples of my Diaphoretick powder, twelve grains of Camphire in Carduus water, and he remained two hours covered, but did not sweat. In the evening he took the same potion again; and being well covered, he did sweat plentifully, was much better, all that day took in every draught of broth one scruple of Bezoardicum Minerale. A few days after he perfectly recovered; When his Feaver ceased, a swelling arose behind his Ear exceeding painful; which was discussed without breaking.

The 30 Observation or History of Famous and Rare Cures, &c.

Of Nephritick Pains.

ON the 3. of July, in the year 1630. Peter Berard, a famous Apothecary at Grenoble, thirty years of Age, was taken with a most grievous Nephritick Pain, and presently he took two Clysters very laxative of Confectio Hamech, Diaprunum Solutivum and Turpentine. which giving him no ease, he sent for me. I prescribed him a third Clyster; emollient and carminative with Diaphanicon, and Diaprunum solutive, of each half an ounce, and four ounces of Aqua

Aqua Benedicta. With this Clyster he was lustily purged, and his pain quite taken away. For the Sick man perceived the Morbifick matter to be drawn forceably out of his Loyns and whole belly without any trouble. At the same time Fomentations were applied of the foresaid Decoction.

The 31 Observation or History of Famous and Rare Cures, &c.
Of Arthritick Pains.

ON the 8 of July, 1630. I was sent for by Mr. *Perdrean*, Apothecary to the most eminent Cardinal *Richelieu*, lying sick at *Grenoble* of pains in his Joynts, which tormented his Legs, Arms, and other Parts with Swelling, Inflammation, and a light Feaver. He had been twenty days troubled with this Disease, and had been nine times let Blood of his own Head, and his blood was full of wheyish moisture: also he had been divers times purged. By my advice there was given him a scruple of the *Calomelanos* of *Mayerne*, eight grains of *Diagridium* and a Clove. He was gently and plentifully purged, and was much better. Afterwards he took morning and evening a cooling Julep, in the Dose whereof was infused three drams of *Senna*, and half a dram of *Coriander* seed, which he took cold two days together. Afterward he took the former powder with like success, and was perfectly Cured.

Read more of the Nine former Observations in the Practice of Physick, *Riolanne* Guide to Physick and Chyrurgery, and *Johnstons* Idea.

The 32 Observation or History of Famous and Rare Cures, &c.

Of Womb-Fits.

IN the month of *October*, the year 1631. the Wife of Mr. *Dalmeras*, the Kings Council-lor in the Supreme Court of *Subsidies*, was troubled with the Mother, with a Vomiting, Loosness, and extream Weakness, so that she seemed at deaths dore. After many Remedies used, viz. Strengthening Fomentations applied to the stomach, Chickens applied to the heart, and Epithemes thereto applied, also Cupping-Glasses fixed upon her Thighs and share, a Clyster injected of Broth and Treacle; and after she had taken Cinnamon Water, at last she drank this following potion, which did her abundance of good.

Take Water of *Mugwort*, *Roses* and *Orange* flowers, of each one ounce; *Cinnamon* Water three drams, Confectio de *Hyacintho* one dram, Powder of *Diamargaritum Frigidum* half a scruple, *Saffron* four grains. Make all into a potion.

Having taken this Potion, she vomited no more, and was very well for two days; afterwards her Disease came again, and troubled her by fits. But as oft as she took the said potion, all the Symptoms ceased.

The 33 Observation or History of Famous and Rare Cures, &c.

Of a Loosness.

A Strong man, of a Cholerick temper, and a middle Age, was taken with a very Cholerick Loosness, with an exceeding great Thirst: being called to him, I prescribed him *Lapis Prunellæ* in his ordinary drink; also in his Juleps made of Lettuce and purslain Water, which he took thrice a day, and so in the space of twenty four hours he recovered.

The 34 Observation or History of Famous and Rare Cures, &c.

Of Obstruction of the Liver and Spleen.

A Certain Student, a *Polander*, by reason of unseasonable Watchings, fell into grievous Obstruction of his Liver and Spleen, which brought him to extream Leanness, whereas he

he was before well fleshed, and of a good habit of Body. And after he had used purging potions, aperitive Apozemes, and other Remedies which did him little good; I prescribed him these following Pills; by the use whereof he was restored to health in a months space.

Take of the best Aloes and Gum Ammoniacum dissolved in Vinegar, and forced through a Searse, and thickned again, three drams: Senna cleansed, and choice myrrh, of each one dram and half; Saffron half a scruple; with Oxymel of Squills, make all into a mass of pill-stuff, of which let him take two scruples every other day two hours before Dinner.

The 35 Observation or History of Famous and Rare Cures, &c.

Of a beginning Phthisis or Consumption.

THe Renowned and most Beautiful Woman, the Widow of the Lord *De Ribes*, being twenty five years, was grievously troubled with a thin sharp Rheume which fell down upon her Breast, with a dry and almost continual Cough, Leanness, a slow Feaver, and redness of Cheeks, which infirmities she had received by infection from her Husband, who two months before had died of the Tifick, so that she seemed to be posting to the same Disease.

On the 15. day of the month of *May*, in the year 1629. I prescribed her a purging potion of Senna, Manna, and Syrrup of Roses, with a pectoral Decoction. The next day I caused her to be let blood. Then I ordered her to take pectoral and cooling Broths for twelve days together, and in every fourth broth Senna was boyled to the quantity of half an ounce.

After her Broths, she used a Bath of a decoction of Barley and sweet Almonds: Mean while she took a nights one spoonful of a Syrrup to stay her Rheume and Cough, which was compounded of Syrrup of Violets, Jujubes, dried Roses and Poppies, of each a like quantity.

With these Remedies she grew perfectly well, nor had she any need of a Caustick or Issue, nor of the Asses Milk which I had prescribed for her. Howbeit I perswaded her to take her purgation twice a day.

The Diseases mentioned in the four last Observations, are more largely treated on in the Practice of Physick, *Riolanus* and *Johnstons* Idea.

The 36 Observation or History of Famous and Rare Cures, &c.

Of an old Gonorrhæa.

MSr. Q. Dr. of the Civil and Cannon Laws, being for eight months troubled with the Gonorrhæa, asked advice of me. In the first place I prescribed him this following Bolus.

Take Venice Turpentine three drams, powder of Rhubarb one dram; make them into a Bolus, which let him take five days one after another. After this Medicine he was pretty well, but after some days the flux returned. Afterwards he used the Water for a Gonorrhæa, which is described in the Dispensatory of *Quercetanus*; at the first giving, the Flux was wholly stopped, and therefore he continued the use thereof only for three or four days, and the Disease came no more.

Read for this Disease *Sennertus* his most Excellent Book of the French Pox.

The 37 Observation or History of Famous and Rare Cures, &c.

A deadly Head-ach.

ON the 6. day of *April*, 1629. at *Lodova*, I visited the daughter of *Francis Fezon* a Merchant, being seven years old, which for two months had been troubled with a grievous head ach about her Forehead and Eyebrows, which took her almost every hour so violently, that she many times desired that her head might be cut open with a Knife. And two days before

fore I came to her, she had three or four fits of the Falling-sickness, and foamed. Her ordinary Physitian had prescribed her many Remedies, especially Purgations by Apozemes, and Cupping-Glasses and Vesicatories were applied to her Neck, but all in vain. Being about to consult touching this Case, word was brought, that a new Fit had killed her, and after her death some corrupt Matter came out of her Nostrils. Whence might be conjectured, that an Imposthume was secretly lodged in Her Brain; but the same being opened, there was nothing found therein, save a serous or wheyish humor shed into the Ventricles of the Brain.

This Accident brought into my mind the History of a certain Virgin, who being tormented with the like pain for many months together, and having tryed many Remedies in vain, a certain Chyrurgeon shaved all the Hair from her Head, and covered the same with a Vesicatory, as if it had bin a Spice-Cap; whereupon bladders being raised, a great quantity of wheyish Blood flowed out, and so was Cured; which Remedy might also have helped this Girl aforesaid.

The 38 Observation or History of Famous and Rare Cures, &c.

A Schirrhus of the Womb.

ON the 26. day of *December*, 1630. the Wife of Mr. *Dugast* of *Bitteren*, twenty years of age, came to *Montpelier* to be cured of an Infirmary with which she was troubled. Now it was a Schirrhus, hard swelling of the whole Body of her Womb, and had been of five months continuance when she brought forth her first born Son, and unwarily exposed her self to the cold Air; by which means, the remainders of her Child-bed purgations were suppressed, and retained in the body of the Womb, where they caused a tumor which in tract of time attained to the hardness of a Schirrhus. Sometimes she felt pricking pains in the part, whence there was a suspicion, lest that tumor might have some affinity with a Cancer. These following Remedies I prescribed for her.

Take Diacatholicum half an ounce, Hiera Picra and Diaphanicon, of each one dram & half; Rhubarb powdered one dram; with Sugar, make all into a Bole. Let her take it in the morning, and order her self accordingly. The day following, let the Basilica-Vein of her right Arm be opened, and let her bleed eight ounces.

Take Roots of Asparagus, Butchers-Broom, Parsly and Briony, of each one ounce. The Barks of Caper-Roots, and the middle rind of the Tamarisk, of each half an ounce. Leaves of Agrimony, Ceterach, Maiden-hair, Mugwort, Feverfew, of each one handful: Senna cleansed and Polipody of the Oak, of each one ounce: Epithymum half an ounce, Agarick newly trochisked two drams, Ginger and Cloves, of each two scruples: Boyl all to a pint in the strained Liquor, dissolve Syrrup of Cichory, with Rhubarb three ounces: Make of all an Apozeme for three Doses, in three mornings to be taken one after another.

Take Roots of Marsh mallows and Lillies, of each two ounces; Roots of Briony and wild Cucumer, of each one ounce; Leaves of Mallows and Violet, of each two handfuls; Leaves of Mugwort, Nep, of each one handful: Fat Figgs twelve pair, Linseed and Fenugreek seed, of each one ounce: Flowers of Chamomel and Melilot, of each two pugils. Boyl all in three quarts of Water, and one of White Wine added towards the end, with which the part affected must be fomented morning and evening.

Take Fresh new-made Butter and Hogs-grease, of each one ounce; Oyl of sweet Almonds and Lillies, of each two ounces; Musilage of Fenugreek seed drawn with White-Wine six drams, Gum Ammoniacum dissolved in Vinegar three drams, Saffron half a dram, Wax as much as shall suffice. Make of all an Oyntment to be used after the Fomentation.

Take of the Roll of Melilot Plaister, and of Plaister of Musilages, of each one ounce; Gum Ammoniacum dissolved in Vinegar, and drawn through a Searse, & then thickned, half an ounce, with Oyl of Lillies, make a Plaister upon Leather of a fitting magnitude and shape, to be applied to the said part after anointing, and to be renewed every fifth day.

Take of the best Aloes half an ounce, Gum Ammoniacum dissolved in Vinegar, and thickned again, two drams; Bdellium and Myrrth, of each one dram; Senna cleansed, and Agarick newly

newly trochisked, of each two drams; Fæcula Bryoniae one dram. With Oxy-mel of Squills, make all into a mass of Pill-stuff. Of which let her take half a dram every day, in the morning two hours before meat, for fifteen days together.

When she had begun the use of these Remedies, an extream Fit of Cold Weather hindered her continuation thereof, and she returned into her Country; and at her departure, I advised her to renew her use of the foresaid Remedies in the Spring, and to continue them a long time together. To which I added, That she should frequently sit in a Bath, should use an emollient Cataplasm, and a Diet-Drink of China Roots for her ordinary drink. All which Remedies being continued for three months together, especially the Fomentations, Oyntments and Plasters, with the Diet-Drink afore-said, she was perfectly cured. And her monthly purgation, which was stopped for eight months together, came again and kept its natural course: So that after that time she bore Children. Read for this, and all other Womens Diseases, that Excellent Piece, the Fifteenth Book of the Practice of Physick.

The 39 Observation or History of Famous and Rare Cures, &c.

Of a Quartan Ague.

A Comly Damosel, the daughter of M^r. Despians, the Kings Councillor in the Supream Court of Subsidies, in the month of November, in the year 1630. was troubled with a double Quartan two months. I prescribed her an infusion of one dram of Senna, in my Fever-conquering Water, which she was to take every day, and at the Fourth taking her Ague was perfectly taken away, and she was afterward very well in health.

The 40 Observation or History of Famous and Rare Cures, &c.

Of another Quartan.

M^r. Varandens, A Canon thirty years old, being sick of a Quartan Ague, in the month of December 1630. used the foresaid Remedy every day, and was Cured at the seventh taking thereof.

The 41 Observation or History of Famous and Rare Cures, &c.

Inflammation of the Dugs.

A Bout the beginning of January in the year 1631. the Wife of the renowned M^r. de Rocemore, Chief President in the Court of Subsidies and of Accounts, being in Child-bed, began to be troubled with the Inflammation of her right Dug, by reason of a blow which she had there received. Now there was milk therein, which could not be suckt out. On the first day there was an Embrocation used thereto of two parts of Oyl of Roses, and one part of Oyl of unripe Olives. On the second day and the following days, the said Embrocation was continued only to the part pained, and her whole Dug anointed twice in a day with Oyntment of Marshmallows, and within a few days she was cured, without any other Remedy. Cupping-glasses were fastened to her Shoulder blades, but no vein was opened, because I saw the Disease presently dissipated.

The 42 Observation or History of Famous and Rare Cures, &c.

Of a Malignant Feaver.

I N the month of April, in the year 1631. A young Woman, the Widow of Montaudas, a Citizen of Montpelier, was troubled with a malignant Spotted Feaver, and she had ordinary

dinary Remedies administred till the eighth day, in which I was called, and found the sick Patient extream weak, with a mighty Thirst, dryness and blackness of Tongue, and black Furred humors sticking to her Teeth. Besides sundry cordial Medicaments, I prescribed her very cooling Juleps, with *Sal Prunella* and Spirit of Vitriol. And in her Ptism which she did ordinarily drink of, she took *Sal Prunella* and Spirit of Vitriol. Cooling and moistening Fomentations were applied to her Breast and *Hypochondria*: and within two days her thirst and burning vanished. And afterwards with a Purgation and other lighter Remedies, she in a few daies recovered.

The 43 Observation or History of Famous and Rare Cures, &c.

A malignant Feaver, with Swelling behind the Ears.

IN the Year 1623. after the Siege of *Montpelier*, a very malignant Feaver ranged up and down, of which well-nigh half that had it, did die. More peculiarly, all that had Swellings behind their Ears (which was wont to happen about the ninth or eleventh day of the Disease) did die. And having seen many of these, whom I could not cure with any Antidotes; I began to think that Risings behind the Ear are therefore counted a natural sign, because that part is not large enough to receive the whole Morbifick Cause, which remaining in the inner parts, kills the Patient; and that the Work of Nature must be supplied and helped. And though the Patients had a small, very frequent Pulse, and almost such an one as they call the Pismite Pulse, so that they seemed to be at the point of death: yet revolving in my mind this saying of *Cornelius Celsus*, viz. That many things may well be practised in a dangerous case, which were otherwise to be let alone; and that it is better to try a hazardous Remedy upon one or two, than to leave so many sick people to certain destruction; I ordered them to be let blood by piece-meal (because of their Weakness) twice or thrice in one day, and the day after I gave them a Purgation. By which Method, all that used the said Remedies were happily delivered, nor did any die afterward. The History of the first Patient cured after this manner, is found described at large in this First Chapter of the third Section of my Method of Curing Feavers. Read for these Feavers, the Practice of Physick, Book 17. And *Johnstons* Idea and *Riolanus* Guide to Physick and Chirurgery.

The 44 Observation or History of Famous and Rare Cures, &c.

Cholick Pains in the Stomach.

IN the Month of *April* 1631. the Wife of *Mr. William Dortoman*, a renowned Advocate of *Montpelier*, was suddenly taken with most vehement pains, quartering in the Region of her Stomach and Spleen, which could not be abated, either with Fomentations or Purgations: but Blood being plentifully drawn out of her left Arm, they vanished immediately.

The 45 Observation or History of Famous and Rare Cures, &c.

Vomiting of Blood.

Paul Hilary, a Merchant of *Nismes*, being afflicted with an abundant vomiting of Blood, four or five times in the space of six Weeks, for the stoppage whereof many Remedies were applied by his ordinary Physitians: at last the symptome returning again, and holding longer than ordinary, so that he was in extream danger of death, I was called to him on the 28. of *May* 1631. He was 50 years old, of a cholerick temperament, and exceeding ready in all his actions; and having been Consul the year before, he had wearied himself with exceeding great Labours both of Body and Mind: whence much Choler was bred, vvhich by aduotion came near the Nature of Black choler; and putting the blood into great Commotion, caused the

the same to find an Issue, to which end the Acrimony of the said humor did very much conduce, as being apt to open the Veins: as also the exceeding thinness of the blood by reason of abundance of the Wheyish substance mingled therewith. I conceived that this blood came out of the Veins by way of Anastomosis, because he vomited it in exceeding great Quantity, being curdled into clodders. Yet between whiles he vomited nothing at all, so that for a whole month after this first Fit, he vomited no blood at all. Add hereunto that he voided blood by stool also, as well as by vomit; yea and his first Fit began with voiding blood by stool, which shews that the Meseraick Veins which end into the Guts, were opened by Anastomosis.

On the foresaid day when I visited him, the Eruption of blood was stopped for twenty four hours. Howbeit, it seemed to be again at hand, as might easily be seen by the unquietness, Thirst, Heart-burning, Heat of the Midriff, pulsation of the Head, and the Patients Feaver: and therefore, seeing it was towards evening, he had only a Julep given him of Plantane and Purslane Water, with Sal Prunellæ. He slept all night full of Tumblings, Tossings, and Unquietness.

On the twenty ninth of the Month of *May*, in the Morning, he was let blood out of his left Arm, only the quantity of four ounces, because he was so troubled with Heart-burning, and so weak, that he thought he should quickly die. His blood was exceeding red, and all in a manner turned into Serum: upon his blood-letting he became stronger and was better; also his Urines, which before were like Water, became coloured. A detergent Clyster being given him in the afternoon, he was again let blood seven ounces; the blood was very like the former, and he was the better after it. The foresaid Juleps were repeated. For drink he used Water in which Iron had been quenched, with Syrrup of Quinces and Spirit of Vitriol. An astringent powder was put into his Broths, Barley-Creams and Panadaes; also a binding and strengthening Electuary was prescribed to be taken once a day, towards the evening. A Fomentation was applyed to the Hypochondria of the decoction of Purslane and Plantane; and other things boyled in Oxycrate or Water and Vinegar; also a cooling astringent Oyntment was applyed to the said parts. His broths were made with Ironed Water. The following night he slept sufficiently, but his dreams were troublesome.

On the thirteenth day of the same month, his Urines were better coloured, his Pulse better, only his thirst and pulsation in his Head did continue. In the morning was given him a Medicament of one dram of Powder of Rhubarb, and two drams of Tryphera Persica, with which he did four or five times void many Cholerick and Wheyish Humors, whence he became better; his Urines were amended, and he slept all night.

On the last day of the same month, he was well in the morning, but his Urine had no swim, his thirst continued, and his pulsation in his Head. He had a cooling astringent Julep given him to drink, made of a decoction. His Urines grew paler by little and little, void of Swim, thirst encreased, notwithstanding his sharp drink. Towards evening the Feaver was augmented, the Patient was very unquiet and thirsty, also he complained of a mighty boiling in his stomach; whereupon I was exceedingly afraid that his vomiting of blood would return again, the cause whereof seemed to be the translation of Choler to those parts, whence it was that the Urines were so pale. I conceived the Procatartick cause of this return to be, either the too frequently giving him over-boiled broths, or over-hot application of the Fomentations by the Apothecaries unskilfulness, which ought to be applied but lukewarm. A token hereof was that the Patient said he felt an heat under his short Ribs presently upon the first application of the Fomentations. To the end therefore to prevent this Symptom at hand, I caused him to be let blood in his left arm eight ounces, which issued out with violence. At the same time Epithemes were applied of Vinegar and water luke-warm, Frictions were used and ligatures, a Clyster was given, and a Julep of Purslane Water and Red Poppy Water, with Syrrup of the red Poppy and Sal Prunellæ. With which Remedies within two hours he was freed from his Heat and thirst: He passed over the rest of the night with very little sleep, the beating in his Head still remaining.

On the first day of *June*, his Urines were well coloured, with an Encorema or swim; he took a potion of a decoction of the leaves of Cichory, Sorrel, Purslane, with half an ounce of Tamarinds, adding an ounce of Syrrup of Pomegranates, a scruple of powder of Rhubarb. He was twice purged in the forenoon, and voided great quantity of Wheyish humors. After the second stool, he was taken with a violent vomiting, and cast up his Broth, which he had took but a

little before, with Flegm, but no blood: in the afternoon he had two or three stools of Cholerick Frothy excrements, and slept indifferent well at night.

On the second day of *June*, in the morning, he seemed a little troubled in his discourse; so that he could not rightly pronounce his words, nor conveniently deliver his mind in good sense, which nevertheless he was himself aware of, and said that his mind was not Free. The pulsation in his Head did continually persevere, he took the aforesaid Medicament of half an ounce of Tamarinds, and a scruple of Rhubarb. And seeing the aforesaid disturbance of his mind continued, two Cupping-Glasses were applied to his Shoulders, with Scarrification, with which very Wheyish blood was evacuated, and the ordinary frontal was applied. Within an hour that small Raving went quite away, and the whole days space he had four or five Stools, which he bare very well. At night he slept quietly, and was thereupon much better.

On the third of *June*, he professed that he found himself very well, and that the beating of his Head was very much diminished. He took again the aforesaid Medicament, and was purged as before. Epithemes were daily applied to his Heart, and Fomentations to his Hypochondria, of Oxycratum or Vinegar and Water: also he took in the Evening the aforesaid Opiate.

On the fourth of *June*, the Patient continued in the same condition, he took in the Morning the fore said Opiate, and again in the Evening, and in the afternoon Syrrup of Corals. But because in his Spleen an extraordinary hardness was perceived, an Emollient and Aperitive Fomentation was applied, as also an Oyntment indued with the same vertues.

On the fifth day, he took in the Morning of the Broth of an old Cock, boyled with temperate Aperitive Medicaments, China-roots and Cream of Tartar. An Issue was made in his left Leg, and the Fomentation and anointing of his Spleen were continued. And now the Remedies used to stop blood, were by little and little left off, and we proceeded to the use of such as were proper for the obstruction of his Spleen, and against his Melancholy Humor. Then he began to use solid meats with a little thick Wine; when he was free of his Feaver, the Excrements of his belly, and his Urine better digested, and his sleep almost continual. The swelling in his Spleen appeared sufficiently great, and therefore I prescribed him the aforesaid Cock-broth for twelve days, adding every third day two drams of Senna. Also I caused him to continue his Fomentation and his Emollient and aperitive Liniment for the like space, and after those twelve days a Bath, after that the Waters of *Meyne*, with iteration of the Bath once a week. And finally the magistral of Juyces, with the opening Opiate.

On the sixth of *June*, he took his broth with two drams of Senna, and was therewith duly purged.

On the seventh day I departed, and with the use of the fore said Remedies, especially the magistral Syrrup, for a long time together he was cured.

Read more of this in the ninth book of the Practice of Physick, and *Johnstons* Idea, of the last edition.

The 46 Observation or History of famous and Rare Cures, &c.

The Whites.

A Renowned Nun, by reason of the hot distemper of her Liver and Kidneys in the beginning of *August* 1630. was taken with a very plentiful and troublesome flux of the Whites; of which a Chyrurgeon going about to cure her preposterously, and giving her vehement purgations, the Disease was lengthened out to the Winter following: nor did it now cease, but was only diminished, and the sick Patient continued pale and without colour. Now the spring following, her infirmity began by little and little to grow worse, until the Beginning of the Summer, at which time she had no appetite, and was troubled with a light Feaver, unto which a cough sometimes was joyned, so that it was feared she would fall into a Consumption.

I appointed her in the first place a gentle purgative of Senna and Rhubarb, and afterwards to be let blood. And then a laxative Ptsan for four days, then a luke-warm bath to temper the Heat of her Liver and Kidneys for two days following.

Upon

Upon her bathing, she was taken with a Looseness, seeming at first to do her good, but afterwards she was thereby weakned; sometimes she had a Fever, and her Stomach was void of Appetite. I ordered her to take for five or six days together a scruple of Roman Wormwood an hour before dinner. The first day she had many and large Stools; on the second her Looseness wholly stopped, and on the other days her Stomach was very much strengthened, her Fever vanished, she became daily better coloured, but her want of Appetite did persevere. I ordered her to continue the use of the Rhubarb for twelve days longer without the Syrrup, made into a bolus with one dram of Turpentine to stop her whites. And she was freed from all the aforesaid distempers and disorders.

The 47 Observation or History of Famous and Rare Cures, &c.

A continual and Malignant Fever.

ON the last day of *January* 1629. the most reverend Bishop of *Nismes*, being fifty years old, began to be sick of a malignant Fever, which had its exasperations every day, from eleven in the morning to six in the after-noon; he was stomach-sick by fits, and troubled with the Hiccup, his Urines red and troubled, his excrements liquid, Cholerick and few, his want of sleep perpetual to the seventh day. Being first taken ill in a small Village near the Kings Camp, he presently betook himself to *Belliloca*, when on the second day of his sickness, he was let blood by two Physicians, and very corrupt blood came away. This was done after he had taken a Clyster.

On the third day, he was again let blood, and blood like the former was taken away. In the mean space cooling Juleps, and such as resist the venomous quality of the disease, were administered. On the same day light sweat appeared, without any cold shaking before the same, or any shivering, but he was very Stomach-sick before his sweating. On the fourth, fifth and sixth days the like sweat returned, without any abatement of the Fever.

About the end of the fifth, drops of blood came out of his Nose. Now I was sent for on the sixth day, in which the Fever appeared vehement with a great and frequent Pulse, Thirst, Tumbling, and other Symptomes. On the same day he was again let blood eight ounces.

About the beginning of the seventh day, he was taken with a shaking fit for an whole hour, after which he was grievously Stomach-sick for another hour, at last he did sweat plentifully, which continued all day in a manner; so that he was fain to be shifted seven times. After his sweating, his Fever was wholly allayed, and his Urines which were before red and thick, became yellow and well conditioned.

On the eighth and ninth day he had a moderate Looseness, whereby was voided Cholerick and phlegmatick matter, whereby he seemed restored to his former health.

On the tenth day he was removed to *Nismes*, because of the unhealthiness of *Belliloca*, and because the Plague began there to break forth.

On the twelfth day he was purged with a Medicament of Senna, Rhubarb, Manna, and Syrrup of Roses.

On the thirteenth he began to use more solid meats, in a small quantity, and on the fifteenth Wine much allayed with Water. The same day he left his Bed and dined at the Table, to make it appear that he was perfectly recovered.

Nevertheless he fell into a Relapse on the said fifteenth day about Midnight, with frequent Vomitings, whereby he cast up a little Flegm.

About the beginning of the sixteenth day, after a Clyster, he was let blood, and very corrupt blood came from him. Juleps were made of cooling, Aperitive and Alexipharmacal Medicaments, Epithemes, anointings with *Machiolus* his Oyl of Scorpions, were applied, and *Confectio de Hyacintho* was ordered to be given him in his Broths.

On the seventeenth day, the Clyster was repeated, and he was again let blood, the blood being like the former. Bezoat stone was giving him in his Juleps, and sometimes Bezoardicum Minerale in his Broths. To take away his Inclination to vomit, Salt of Wormwood was twice given him, not without success, and strengthening Fomentations were applied to his Stomach. An Oyntment of Oyl of Nutmegs and of Quinces were applied to the same part. In his Julep,

Treacle Water was mixed once or twice, because there was great suspicion that there was a touch of the Pestilence in this Disease, because of his frequent Stomach sickness and Faintings, Spirit of Vitriol was given him in his ordinary drink.

On the 18. day, he was taken with a shaking Fit. which was followed by a sweat, which continued four or five hours, but the matter was little that sweat out, and he bore it ill, was very unquiet, Stomach sick, and vomited frequently.

Afterward to stop his stomach sickness, a dram of Salt of Wormwood was given him, dissolved in Wine, which wrought most happily, so that he was very seldom troubled with any vomiting afterwards. A few hours after, being again taken with a shaking Fit, he went twice to stool plentifully, and at last he fell into a sweat, which he could not long bear, by reason of Unquietness; the sweat came slowly away, but it continued many hours.

To assist that motion of Nature there was given him Bezoar stone with Broth, and some hours after in more Broth there was given him Bezoar Solare, wherewith he did sweat abundantly and easily, and by that means his Feaver was very much abated.

On the 19. day, his Feaver was much gentler, a Laxative Clyster being given him with three ounces of Aqua Benedicta, with which he had five stools during that whole days time, and voided much Choler mingled with Flegm; at night he slept quietly, his Urines were well coloured, with a thin settling. His strength was repaired by Roborating Medicaments.

On the 20. and the 21. day, all things were after the same manner: once or twice in a day, he voided by stool Excrements sufficiently thick.

On the 22. day he was purged with a Medicament like the former: and he had many stools of a Cholerick and Flegmatick matter; also he vomited thick Flegm with a little Choler. Afterwards he slept pleasantly all night, as also the following day, which was the 23. and then he was quite void of the Feaver; and the Urines appeared better digested.

To expell the Remainders of the Humor, on the 24. day he took an opening Broth, wherein on the 26. day we boyled half an ounce of Senna with correctives; and therewith he was four times purged; whereupon his Stomach to his Meat was encreased, and his thirst gone; and the opening broths being continued for certain days, he was restored to his former Health.

The 48 Observation or History of Famous and Rare Cures, &c.

Of an Inflammation and Imposthume of the Kidneys, Bleeding at the Nose, a Malignant Feaver with grievous Symptoms.

ON the 2. day of *March*, in the year 1629. I was sent for to the most reverend Bishop of *Lodoven*, being fifty years old, who had been formerly sick of a Malignant Feaver, and had twice relapsed into the same Feaver, and was freed from the said Relapses by divers Critical Evacuations, especially by plentiful bleeding at the Nose, and with very many Remedies prescribed by two Physitians of *Lodoven*, and my self. After he seemed to be recovered many days together, on the 17. of *March*, about twelve a Clock, he began to be sick, and on the day following was suddenly taken with a sharp and settled pain about his right Kidney, which was followed by these Symptoms, frequent vomiting and Hiccupping, troubled Urines, sometimes red and Watry, sometimes with Gravel, partly red and partly white, sometimes also he complained of nummedness in his right thigh. On the 22. day a feaver seized him, and on the following days he had shaking Fits, twice or thrice a day; after which the Feaver was exasperated for two or three hours.

I coming to him on the 27. day of his Disease with the Physitians aforesaid, we conceived (advising together) that there was a stone in his right Kidney, and that the pain had caused an Inflammation in that part. But because there appeared then little or no pain, we conceived the Inflammation was come to suppuration. We resolved to let him blood, first in his right Arm, afterwards in his Ankle on the same side, and that he should have emollient and cooling Clysters frequently injected, with Juleps, lenitive Emulsions, Epithemes, Fomentations, Liniments and Cataplasmes. We began with Blood-letting, which was celebrated on the 27.

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day aforesaid, in the evening to the quantity of eight ounces. About Evening he bled at the Nose the quantity of two pound, and the blood still issued, and he grew weak. Therefore we consulted to stop the bleeding, and ordered him to bleed for revulsions sake in his right Arm. We gave him *Sal prunella* dissolved in cold Water. An Astringent frontal was applied, Vinegar was dropt into his Ear; he took juyce of Nettles, a Cupping-Glasse was applied to the Region of his Liver; a Linnen Cloath wet in Vinegar was wrapped cold about his Neck, and his Arms and Legs were tied. Which working no effect, the Patient said he must go to stool, nor could he be perswaded to use the Stool in his Bed. We told him before-hand, That if he rose out of his Bed being so weak, he would faint away; howbeit that fainting would be profitable to stop his Bleeding. Which happened just in a manner as we had fore-told; for after he was up he fainted away; out of which Fainting Fit being recovered by giving him Wine, and throwing cold Water in his Face, he had a plentiful stool, and after he was laid again in his Bed, he bled not so violently as before: and after he had rested a while we gave him one dram and an half of *Sal Prunella* dissolved in Water, which when he had taken, the Bleeding was quite stopped, and there needed no more Remedies.

The following day, which was the 28 of *March*, he was troubled with a mighty Thirst, and certain painful Pustules caused by adust blood, brake out about his Fore-head, Cheeks, Lips, Tongue, and in the Palms of his Hands, but no shew of any pains in his Kidneys. Only he did exceedingly abhor all meat, so that he would by no means take any Broth, much less Juleps and Emulsions. Howbeit he slept by fits all the day long, and had two stools of Cholerick and very stinking Excrements. His Urine had no colour, was thin, void of setling, with gravel in the bottom of the Chamber-pot. In the morning we gave him in his drink half a dram of Salt of Pearls with boyled Water, and his Thirst was much abated. In the Afternoon and again in the evening, we gave him twelve drops of Spirit of Vitriol, with an ounce of Syrrup of Maiden-hair in boyled Water, by which also his Feaver and Thirst were much abated. He was frequently anointed on his Loyns with *Populeon*, *Galens* cooling Oyntment and Oyl of Roses. Three or four spoonfuls of Oyl of Sweet Almonds was mingled with his Broths. The Night following he slept quietly, awaking now and then with mournful groanings, as formerly he was accustomed.

On the 29. day in the morning, he complained of a pain in his right Kidney, which was not very vehement, yet he was not able to lie upon his right side. His Urines were thin and pale, with gravel, partly red and partly white. He had Pustules about his Mouth which were anointed with new Pomatum, a little *Sal Prunella* being mingled therewith. We prescribed him a Fomentation and a Cataplasme, Emollient and pain-awaging, to be applyed to his Kidneys, as also a Julep of a Decoction of cooling Herbs, with Seeds of Lettuce and white Poppies, the tops of Mallows and Violet, and Buglofs flowers.

About four in the Afternoon he was taken with a light shivering, which was followed by an Intense feaver, which lasted for some hours. At ten of the clock he took a Julep of eight ounces, and slept little all night.

On the 30. day, at 3. of the Clock in the morning, he was afflicted with a vehement shaking fit for half an hour; afterwards his Feaver was augmented, the Ulcers of his mouth and Throat were more grievous and painful; for the awaging whereof Diamorum was used; his Thirst was exceeding great, his stools liquid and very stinking. Having taken some Broth two hours after a plentiful Sweat broke forth in his Head and Neck, with a moisture only in his other parts; in the middle of which he had another stool, and had to the number of five stools betwixt that and eight of the clock. His Urines appeared more digested and coloured, having a very small setling, also his Feaver was abated, but he was exceedingly weakned by his Loosness. About four of the Clock he took a Julep, with twenty drops of Spirit of Sulphur; now the Quantity of his Julep was always eight ounces. He slept again till six of the Clock, and when he awaked, he said the Julep had done him much good, and that he felt a coolness all his Body over, and indeed his Feaver seemed more remis: having taken some cooling Broath, he complained of a pain in his Palate, which having viewed, we found it ulcerated by the heat of the foregoing Feaver. For the awagement whereof, he used a Decoction of preserved Mulberries: Afterwards we prescribed him his following Gargarism:

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Take Plantane and Meadsweet Water, of each four ounces; Rose-water two ounces; Crude Allum two drams. After a gentle boiling, dissolve therein Diamorrum and Honey of Roses, of each one ounce. Make it into a Gargarism. We also ordered his Palate to be often smeared with a pencil dipt in Honey of Roses. Also he frequently washt his Mouth with this ordinary Pisan Drink made of Barley and Liguoris.

And from that time he slept quietly enough till Midnight; when he was again taken with a shaking fit, which lasting two hours, there followed an Acute Feaver, which the day following being the last of March, towards Eight of the Clock, appeared much abated, the Urines being always thin and very crude. In the Afternoon the Feaver was yet much more remis, and he seemed to be generally better than on the days before. He had three stools that day, liquid and Cholerick. He took his Juleps twice a day, and Epithemes were frequently applied.

But the Night following, about that time when his shaking Fit was wont to come, he was vexed with a grievous anxiety, and a very troublesome disquietness, with a Loosness, which voided frequently small quantities of Cholerick and Flegmatick matter; he slept not all that night, nor could he endure in his Bed. That we might therefore assist that motion of Nature, which was performed with this difficulty & labour, we gave him a Purge the first of April at three of the clock in the morning. Mean while the Ulcers of his Palate and Mouth were exceeding troublesome, and smelt like a stinking dead Carcass; the Urines continually thin and without colours did affright us: his unquietness was abated about Nine of the Clock, and he had five stools that day. About evening he was much better, but his Urines were continually white and crude, the Ulcers in his Mouth did continually trouble him; the Pustules upon his lips and Chin, yea and on a part of his right Cheek, degenerated in a filthy Crust, like many small Pox running together into one. Also in the middle of his Thighs, on the inside, there arose pustules like Small Pox, distinct one from another, and in both his Legs as broad as ones hand, which were signs of the greatest malignity and adustion possible.

On the second of April, at one of the Clock after mid-night, his Feaver came again with a very small shivering, after which the heat encreased, with unquietness much less than formerly. About the end of this Fit, he took again his purging Medicament, and voided greenish Choler with plenty of Flegm. After noon, his Purge left working, and he was quite free of his Feaver, and said he had a stomach to eat some more solids meat. The Ulcerous Scabs of his Chin and Cheeks exhaled a stinking smell.

On the third of April after mid-night, a Fit of the double Tertian returned again, the same hour, like the former. His Urines appeared more coloured, the ulcers of his Chin and Cheeks did stink sufficiently. We resolved to prepare the reliques of the Morbifick matter for further purgation, by Remedies internal and external. The internal were, apperitive and cooling Juleps; the external an Emollient Fomentation, opening and moistening, applied to his Hypochondria, especially to the region of his Liver, in which there was some stretching perceived, also the Liniment had the same vertues. Before Noon, his Feaver was abated, but it did not wholly intermit, his Urines were well and Laudable with a Little setling. Between Noon and six in the evening he had two stools of liquid yellowish Excrement: To the Ulcers of his Chin and Cheeks were applied an Oynment of Turpentine, the yelks of Eggs, and Honey of Roses. At seven of the Clock in the Evening his Fit returned with shaking, which lasted till mid-night, and ended with a double Sweat, which flowed plentifully. Afterwards he had no Feaverishness upon him; the stink of his Jawes was taken away within twelve hours by the use of the foresaid Oyntment, and the Ulcers began to send forth white and thick quittor. In his Fit we gave him to drink Syrrup of Violets with Pisan and Spirit of Sulphur.

On the fourth of April, when he was free from his Feaver, in the forenoon, the Remedies aforesaid were repeated, and he seemed free from his Feaver all that day. At six of the clock in the Evening, his Fit returned again with shaking, and was much longer than the former Fit.

On the 5. day of April, a Clyster being premised, he was let Blood to abate the Feaver and putrefaction of the Humors, which two things seemed to be the cause of the encrease of the Fit. About five of the clock in the Evening, Crollins his Feaver-Medicine was given him, of Salt of Wormwod, Spirit of Sulphur, and Cichory Water, when the sick man felt his extrem parts begin to grow cold. After which, being more than ordinarily covered, and his Members warmed with heated Cloaths, the beginning of his Fit was in this manner delayed till seven

seven a clock, and the cold Fit continued an hour; afterwards by force of the foresaid Medicament, he vomited a good quantity of choler and flegm; afterward his heat was mild, and without any very great inquietness.

On the 6 day of *April*, the Patient complained of a fiery heat in his Stomach, which by fits did very much vex him. Also he complained of a pain in his left side under the short Ribs, which when I was about to feel, he could not endure my hand to touch the place, and there seemed to be a manifest extension or stretching: for three whole days together his Urine was not saved. But because he was wont to have three or four stools a day, we conceived that his Urine went away with his stools; but because, besides the foresaid stools, he had an almost continual desire of going to stool, we did very much suspect that some grievous Disease lay hid in his Kidneys, especially seeing he was frequently troubled with the Hiccup. Finally, about two a clock he voided into the Chamber-pot true Quittor, white, smooth and even, and no ways stinking, to the quantity of three ounces: with very little Urine. Hence it plainly appeared, that there was an Imposthume in his Kidney, which being kept in, brought grievous Symptoms. Yea verily, and the Patient slept all night, and the Feaver was very remiss until Midnight. A fiery heat did by fits afflict his stomach, and an Hiccapping did vex him by fits. At midnight the pain and swelling of the left Hypochondrium were much abated, so that he could endure it to be touched. He voided again some Quittor by way of Urine, to the quantity of half an ounce, and no more. He voided Cholerick matter twice or thrice by stool, with which we conceived there was mixed some Purulent matter, though we could not certainly tell. After Midnight his Fit returned, or rather there was an exacerbation, for it came not with any shaking or shivering, nor with a very intense Feaver, but rather with an inquietness and languishing.

On the 7 of *April*, in the morning before day-light, he made water, which was hardly an ounce in quantity, and in the bottom there was little Quittor settled. About seven a clock he had a small stool, and the half of it was Purulent matter: whence it might be conjectured that an Imposthume was opened in the capacity of his Belly, which purged it self by his Guts; but by reason of the mixture of other Excrements, when his stools were large it did not shew it self. Also we conjectured that his Urine with Quittor and dung was shed into his Guts; or that it was not drawn by his Kidneys, because he piss little or nothing, and there appeared no fault in his Bladder, or the passages thereof. Add hereunto, that his stools were very large, which if they were not drawn away with a Clyster, he was much worse. And this very day being unquiet almost to desperation until noon, after he had voided his Clyster, he was in a quiet condition. The intense heat continued about his Stomach, and which is a wonder, he was not troubled with thirst; cooling Juleps and Emollient were given him, as also Emulsions. Sometimes Almond Milk was mingled in his Broths. For Drink he used a Decoction of Barley and Liquoris with Syrrup of Violets, mean while he grew every day weaker, and his pulse became more feeble. About five in the Evening, he made a good quantity of water without trouble, at the bottom whereof was a little Quittor; he rested exceeding well, and at eight a clock he piss again, with less quantity of Quittor, and his Pulse seemed better. All night he rested quietly, piss three times plentifully, and there was always Quittor in the bottom of the pot; and the Exacerbation of his Feaver was very little and short.

On the 8 of *April*, early in the morning, a Julep was given him, and after an hour a Clyster was administered, with which he had two plentiful stools. In his Broth was dissolved a Powder of the cold Seeds with Sugar; sometimes Almond Milk, sometimes cooling and gently cleansing Herbs were boyled therein, his Loyns were anointed with a cooling Oyntment. For Drink he used a Decoction of Barley, Grass, and Liquoris, all which remedies were ordained to cleanse the Ulcer already contracted in his Kidney, and to temper the remaining Inflammation of those parts. He was much better all that day, and was hardly Feaverish. At six in the Evening his fit returned, with a light shivering, and continued in a manner all night, but not very vehement, his Urines were mattery, and he was pained in his Hemorrhoids.

On the 9. day he was purged with a gentle Medicament of Senna, Rhubarb and Manna, he was pretty well, but loathed his broths, and could not easily swallow, his Feaver was very small, but he was weak, he felt a weight as it were about evening in his stomachs bottom, he was frequently troubled with the Hiccup, as he had been all his sickness along. At night he had no fit nor exacerbation, only a burning in his mouth, which kept him from sleep,

and constrained him to wash the same frequently; driness and adustion appeared in his Lips, and yet he had no thirst.

On the 10 day his mouth was dry, his belly loose, his Feaver very small, his pulse languishing, his stools very stinking, and always when he went to stool, he perceived an ugly taste in his mouth; his Urines were crude, with very little Quittor; at night he was better, his fit returned not, only a light exacerbation, he had four cholerick stools, his Urines were plentiful and crude, with very little Quittor.

On the 11 day in the morning he was better, nothing troubled him but a mighty weariness; his looseness continued, and his Urines as before. In the afternoon he was yet better, and felt no weariness, his appetite returned, and he seemed to be absolutely in the way of recovery, had but his Urines amended: at night he was a little unquiet, slept not, his feaver was a little more intense, he had only one stool.

On the 12 day, a small Feaver continued with some little weariness about evening, he was free from his Feaver till ten a clock, and then it was lightly exasperated, and troubled him little; he had no stool; his Urines as before.

On the 13 day a small Feaver continued, yet he was better.

On the 14 day he was purged with the aforesaid Medicament; but being much troubled with the driness of his mouth, he was compelled frequently to wash his mouth, a slow Feaver continued upon him.

On the 15 day he began to eat solid meats with appetite, his Urines were more coloured, but with Quittor in the bottom, his slow Feaver continued.

On the 16 day in the morning he was well disposed, his bleeding at nose returned, which was stopped by a sparing blood letting: he had three stools that day, having taken a Clyster, his Urines and Feaver were the same as formerly.

On the 17 day he did eat his meat with Appetite, his Feaver was less, he had only one stool of more solid excrements than formerly, his Urines the same, he rested little that night, and his Feaver had no exacerbation.

On the 18 day he was better, he eat his meat with great appetite, an horse-leech was applied to his Hemorrhoid vein which continued swollen, to draw the blood from his nose which seemed ready to break forth; much blood and wheyish moisture came away, and he slept better the night after.

On the 19 day he had a stomach to his meat, he had a small Feaver in the afternoon, his Urines pale and thin, without any settling, and void of Quittor.

On the 20 day all things were as the day before.

On the 21 day I departed; and by little and little he grew afterwards well, and was in a few days restored to his former health, principally by the use of whey.

For the Reins and Kidneys, read the fourteenth Book of the Practice of Physick, with *Riolanus* Guide to Physick and Chyrurgery.

The 59 Observation or History of Famous and Rare Cures, &c.

Of the Rheumatick Disease.

A Gentleman of 50 years old, of a cholerick constitution, having a long time committed many errors in his diet, especially by feasting, and immoderate and unlesonable Exercises; began for two years last past to be tormented with fundry pains, which sometimes afflicted his arms and hands, other whiles his feet, legs, and other parts, and they were never fixt, but sometimes in one part, sometimes in another, so that to day his right hand, to morrow his left hand would be pained, and a while after it would leave his hands and go into his feet. And when the pain left the parts, a great weakness remained in them, so that the Patient was compelled to lye by it many days together. Nor did these pains afflict only his joynts, but also the other parts; for sometimes his Head was pained, otherwhiles his teeth and jaws, sometimes his shoulder, otherwhiles his Hypochondria; so that no part of his body, in a manner, was freed from pains. At the beginning of the disease, the distance between his Fits were longer, so that being afflicted with his pains fifteen or sixteen days together, he was afterwards free for a month

month or two: but now his free times from pain were much shorter, and he could scarce enjoy his health eight days together. Sometimes he had a light Feaver, especially when his pains came, and he was grown extream lean, and weak all his body over. Many remedies were prescribed by such Physicians as were at hand, for the mastering of this rebellious disease, especially evacuating remedies, viz. Blood-letting and purging, but all in vain; and therefore he consulted with the Physicians of *Montpelier*, who prescribed him these following Remedies.

From the History of the Symptoms with which this worthy Gentleman has been long time afflicted, it may be conjectured, that he is troubled with that disease which is called the Rheumatick distemper, which name we do not use according to the vulgar and common signification, by which all those diseases are usually termed, in which some matter is transferred from the head to some other parts, as is usually conceived in Catarrhs. But properly and peculiarly according to the doctrine of *Hypocrates* in his Book *de Locis in Homine*, and of *Galen* in his first Book of the differences of Feavers, and in his 1. *Compositione Medicamentorum Secundum genera*, We call that the Rheumatick Disease, which takes its original from the habitual distemper of the whole body, which is punctually described by *Galen* in his first book of Feavers, Chap. 7. in these words: You shall understand that the Rheumatick diseases so called, are caused after some such manner as this, viz. The whole body being weak, the principal parts though there be little blood, yet being burthened therewith, they thrust it into the fleshy parts of the Skin, so far *Galen*. Whence it appears that the true nature of the Rheumatick disease does herein consist, that the whole body is habitually so weak, that when any principal part thereof happens to be burthened with blood, though it exceed not much in quantity, it transmits the same into the fleshy parts beneath the skin, and into the skin it self, and from thence it easily slips into the joynts. Now that principal part which in this disease we judge to be most offended, is the Liver, which by reason of some adventitious distemper breeding blood not sufficiently fit for nourishment, it is wont to afflict the whole body with the like weakness, and very much to trouble the same. Now this kind of weakness has its original from some distemper, which that we may more accurately find out, we must call to mind that the inbred temper of the parts may be changed four manner of ways. First, by defect of the inbred heat and of the *Humidum Radicale*. Secondly, by the augmentation of some of the four qualities, wherein the Temper is conceived to consist. Thirdly, from a vitious and malignant or venomous quality, introduced into the part. Fourthly, when the Vital spirit is dulled, dissipated, distracted, or vitiously corrupted. Now in this patient of ours, the second Cause is chiefly to be blamed, viz. The heat of the Liver augmented and become Preternatural, whence the concoction of that part is depraved, and the blood is made wheyish, hot and unfit for nourishment, and for that cause is distracted into several parts; which partly by its acrimony it twitches and causes fundry pains, partly it is turned into wind, and produces other Symptoms, until at last its wheyish and windy parts are evacuated by insensible transpiration, sweat or Urine.

Those most excellent Physicians could not attain to the cure of this disease for two Reasons: First, because (as was said before) the distemper which breeds the Rheumatick disease properly so called, is habitual and confirmed; and therefore is hardly changed. Secondly, because they seem not to have observed that precept propounded by *Galen* in the Cure of this disease in his first book of Feavers, Chap. 6. Which is this. The true scope thereof in the Cure of these diseases is, not evacuation, but strengthening of the whole body: which words are not so to be understood, as if no evacuation were requisite (for the same *Galen* before begins the cure of this disease with blood-letting, and if the excrements also were depraved, he gave a purge) but because we must work more and more frequently with strengtheners, less and more sparingly with evacuators.

Seeing therefore, an hot distemper proceeding from his remarkable and very great Errors in diet, bred chiefly in his Liver, causes a weakness thereof and of the whole body; We must with all our Art oppose the same with such remedies as may correct the said distemper, and by a specified property, may strengthen and refresh the Liver. And because that distemper is habitual, it requires a very long use of Medicines.

In the first place therefore, among all the Remedies which Art has been able to find out to cool and strengthen an over-heated Liver, Tincture of Coral holds the chief place; of which

the patient may take two spoonfuls every day, two hours before he eats. The preparation therefore is after this manner.

Take Red Coral grossly powdered six ounces; put it in a round glass, and pour thereon Juice of Lemmon, till it stand four fingers above the Coral (if you have not juice of Lemmons, take juice of Barberries) shut the glass well, and set it in Balneo Maria four or five days together, and separate the Tincture from the faces, and keep it in a glass by it self for your use.

The Tincture will be more pleasant, if with a like quantity of Sugar Candy it be reduced into a Syrrup; but it will be much more ineffectual. It will be better to add Sugar to each dose, when you give it.

For the same intent the Conserve of Eglantine-berries or Hips, is much commended. You must free the berries from their seeds, and then boyl them in water, and pass the pulp through a searle, and at last boyl it up with Sugar to the consistency of an Electuary. It is made just as they make Marmalade of Quinces.

Of this Conserve he may take every day the quantity of a Walnut, at Morning, Evening, and when he goes into his bed. Also he may use this following Electuary.

Take Lozenges made of Trionsantalon with a fourfold quantity of Rhubarb, weighing two drams a piece. Let him take every day a Lozenge, and drink a little of his ordinary drink after it.

Also the Tincture of Roses will be very good for the same purpose, which is made as followeth.

Take Red Roses dried one ounce; Luke-warm water three pints: Spirit of Sulphur or of Vitriol, one dram and an half: Infuse them together six hours; to the strained Liquor add Sugar one pound, let him drink a cup thereof at times convenient.

These four Remedies must be continually used, in such sort, that he take one in the morning two hours before meat, another in the evening when he goes to bed, and the day following the other two at the same hours, in such sort frequently changing his Medicines, that nature may not be too much accustomed to any one of them. And when he cannot have them all at once, let him use two or three in the order aforesaid; yea he may at the beginning, if he please, use the foresaid Remedies thrice a day, viz. Morning, Evening, and two hours before supper.

The Tincture of Roses may be used at all times, when he is thirsty, between meals, also presently after the taking of his other Medicaments.

Among roborating medicaments, the most convenient is Amber-greese, which wonderfully refreshes the spirits and native heat; nor does it heat so much as is commonly conceived, and it is as it were the Balsom of the radical moisture. He may take eight or ten grains thereof at a time, with Tincture of Coral, in ordinary broth, in a soft Egg.

But because the Distemper and weakness of the principal parts is wont to cause superfluity of excrements, therefore they must be voided at times, by gentle purgatives, as has been said, which may be effected by a magistral Syrrup compounded of juices, and which may do more by altering and strengthening the Liver, than by purging.

Take the juices newly prest out and clarified by settling, of Endive, Cichory, Sorrel, Fumitory, Hops, Agrimony, and Bugloss, three pints; juice of Fragrant Apples newly pressed forth, one pint and an half; Senna cleansed six ounces; Epitymum two ounces; Agarick newly Trochisked one ounce; Mace and Cloves of each one dram; Infuse and boyl them according to Art, till there be thirty ounces of the Liquor left. In which dissolve the infusion of one ounce and an half of choice Rhubarb, made with yellow Sanders, in some of the juices aforesaid by it self, and Sugar thirty ounces. Boyl it to a perfect Syrrup well clarified. Steep it in a glass, and give him thereof an ounce and an half, or two ounces, twice or thrice in a month, with the broth of a chicken, altered with Endive, Cichory and Sorrel Leaves.

And in the intermediate times, when he shall be bound in his body (which must always be kept soluble) he may take an ounce of the same Syrrup with common broth, an hour before dinner.

Or he may dissolve the said Syrrup in a decoction of Prunes.

Or in the said decoction, instead of the Syrrup may be dissolved half an ounce or an ounce of Manna, to be taken an hour before dinner as aforesaid.

Or in the said decoction of Prunes, there may two drams of Senna be sometimes boyled.

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The aforefaid Remedies may be used twice a week if his belly be not disposed to stool.

Moreover to assuage the Heat of his Liver, nothing is more excellent, than a bath of lukewarm water, which must be most frequently used the whole Summer long, almost every day an hour before Supper, in manner of a bath to sit in.

Hereunto add an excellent diet of meats easily digested, and of excellent juyce, viz. Partridges, Capons, Chickens and Pullets, especially broths, strong broths, juyce of flesh pressed out, and such like; all which must be taken in an indifferent quantity, that they may be more easily digested.

For his drink let him use a thin infusion of Rhubarb, made after this manner.

Take Rhubarb grossly powdered half a dram; fountain-water three pints: let them boyl a little, and then strain out the Liquor. Let him use the strained liquor for his ordinary drink, with a little Claret Wine mixt therewith.

Sometimes also instead of the said Infusion, he may use a Decoction of Cichory Roots with Wine, as has been said.

Let him avoid as much as in him lies all vehement motions both of mind and body, Venery, and other things, which he believes have done him much hurt.

If the pain shall happen to be settled in his Joynts, it may be assuaged and dissolved by these following Remedies.

Take Pulp of Marsh-mallow Roots four ounces; New Milk two ounces. Make it like a Liniment, and smear it upon the pained part. Or,

Take of the Roul of Plaister Diapalma as much as shall suffice, spread it upon a piece of leather, and make a Plaister answerable to the pained part.

Read more of this subject in the Idea of Practical Physick; with Riolanus Guide to Physick and Chyrurgery.

The 50 Observation or History of Famous and Rare Cures, &c.

A Swelling of the Spleen.

THe Sister of M^{rs}. Nicolas a Canon of Montpelier, twenty years of Age, after a Tertian Ague ill cured, fell into a great swelling of the Spleen, which filled all her belly almost, with a slow Fever, want of Appetite, want of rest, and other Symptomes.

I prescribed in the first place Blood-letting in her left Arm, after a Clyster: After that an Aperitive Apozeme, with Cream of Tartar for twelve days, and every third day there was infused two drams of Senna, and one ounce of Syrrup of Cichory with Rhubarb was added. At the same time there was applyed to her Spleen an Emollient and Aperitive Fomentation morning and evening, and a Liniment after the Fomentation. She took also in the Evenings, viz. an hour before Supper, of this following Opiate.

Take Conserve of the flowers of Tamarisk and Elicampagne-Roots, of each one ounce, Conserve of Maiden hair two ounces. Conserve of common Wormwood and of preserved Citron peels, of each half an ounce, Confectio Alkermes three drams, Salt of Wormwood and Tamarisk, of each two drams. Diarrhodon Abbatis one dram. With Syrrup of Maiden-hair make all into an Electuary, of which let her take the Quantity of a Chest-nut every day in the morning, two hours before meat, and let her drink after it a little Wine allayed with water.

With these Remedies she was cured in the space of fifteen days.

The 51 Observation or History of Famous and Rare Cures, &c.

Of Blood Coagulated in the Stomach.

THe Brother of M^{rs}. Dumoys the Kings Councillor in the Presidial Court at Montpelier, being fifty years old, after vehement exercise in continual hunting, vomited a little blood, voided

voided also a little by stool. The following days he was oppressed with a heaviness in his Stomach, and Heart-burning, so that he frequently called for meat, and if he wanted the same a small space, he said his strength failed him. Also he frequently sipped off a little Wine. When the Region of his stomach was handled, he felt a pain, his hands were somewhat coldish, and he was a little thirsty. His ordinary Physician says he was troubled with the Feaver *Lipyrria*, proceeding from the Inflammation of his stomach. But when I feeling his pulse, could perceive no Feaver; he said that his weakness hindered the Feaver from showing it self. Now he gathered that Inflammation from blood before voided, which argued the effusion thereof into the substance of the Stomach, from the pain of the part it self, the coldness of his hands, and his heart-burning; whereupon he pronounced boldly, that he would certainly and shortly die. But I judged that all those symptoms did proceed from blood congealed and corrupted in his stomach; which corrupt blood, as *Galen* tells us, puts on the Nature of Poyson; and thence faintings, or Heart burnings, coldness of the extreame parts, and other Symptoms arise. For I could not think it possible, that an Inflammation of the stomach should not cause an intense Feaver and thirst. Moreover, the sick man was delighted by the Application of an hot tile, and of hot cloths upon his stomach, also with the frequent taking of pure Wine unallayed, and with very hot broths, all which an Inflamed stomach could not endure. A Clyster being given him, he voided some clotters of blood therewith. He was let blood, and that which came away was very Flegmatick. After the Emulsion which he took in the evening, by order of his usual Physician, he was very ill all the night. But the aforesaid Physician would not content himself with such Remedies as dissolved coagulated blood, and brought the same away, therefore I who only by occasion had once visited him, left the whole Cure to him. But the day following, no other Remedy being used, he voided by stool most filthy black matter, and so was freed from all the aforesaid Symptoms; which plainly shewed, that the Cause of this Disease was no other than blood congealed in his stomach, according to my opinion.

The 52 Observation or History of Famous and Rare Cures, &c.

Of a Consumption, and weakness of Sense in a part.

THe most beloved wife of the excellent Msr. *Paschal* the Kings Councillor, and a Mr. of the Court of Accompts, being twenty two years old, of an hot and dry Complexion (as by the readiness of her actions, the sharpness of her wit, her angrieness, the largeness of her Veins, her lean Constitution of body; and other signs, might easily be discerned) seven years since began to be troubled with an impairment of her sense of feeling in her left hand, with a leanness of the said part, and a Consumption thereof; which appeared first in her Thumb, whose Muscles that make up Venus Mount, were first of all wasted away, and soon after the sense of that part was diminished, and consequently her other fingers were taken with the same infirmity, until at last they had well nigh lost all feeling; for at present, if a Needle be thrust into her Thumb it hardly puts her to any pain. Moreover little bladders did sometimes arise on the tops of her fingers, as if they had been burnt, and some other things appeared in the habit of her body, which shall be mentioned in their place.

This Case is most difficult, most rare, and most intricate, although most excellent Physicians who undertook her Cure, did little doubt thereof, taking that same impairment of the sense of feeling to be the beginning of a Palsie; which opinion of theirs, although it may be confirmed by no small reasons, yet is it an easie matter to make another Judgement of the Nature of this Disease, and to under-prop the same with most strong reasonings, viz. That it is a meer Atrophy of the part, after which the sense of feeling was impaired by reason of dryness, without any obstruction of the Nerves. I shall produce the arguments on both sides, and leave it free to the Reader to choose the sounder opinion. And in the Conclusion (which will be a rare and singular matter) I shall demonstrate, that this Disease is to be cured with the same Remedies, whether it proceed from the one Cause or the other.

In the first therefore; that this hurt of the sense of feeling is a kind of Palsie, seems to appear from hence, in that from any other Cause, that sense cannot be in any part diminished

ed or abolished save from the obstruction of the Nerves, which carry the Animal Spirits, and the sensitive and moving faculty to the parts of the Body. In the next place, because this Gentlewoman had formerly a Tumor in the right side of her Neck, and a ringing in her right Ear; also a pain about her Neck, which are signs of a flux of Humors from the Head.

But on the other side, that this Disease ought not to be referred to the Palsie, but rather to some sort of Atrophy, these following reasons may evince.

First of all, in the palsie, not only sense but all motion is hurt, especially when it is an old Confirmed palsie, such as that is which has afflicted the patient for seven years together; for though sometimes motion may be hurt, the sense remaining unhurt; and contrariwise, the sense may be sometimes hurt, and motion not hurt; yet this difference is to be observed, which is plainly taught by *Galen* in his first Book *De Locis Affectis*, Chap. 6. viz. That in a part capable of motion, sense cannot be hurt, without the hurting of motion; whereas motion may be hurt without any harm to sense; for sense consists most what in passion, as motion does in action: and seeing the same Animal Spirit does carry both sense and motion through the same Nerve, though it come in less quantity than can suffice for motion, yet may it be sufficient for sense: but if the obstruction of the Nerve be so great, that the sense is hurt, motion must needs be hurt much more. How can it then come to pass, that sometimes sense should be hurt and not motion? For this reason alone (according to *Galen* in the fore-cited place) namely, if the Nerves only are affected which are carried into the skin, those being unhurt which end in the muscles, sense will only be lost, motion being undamnified, as it happened to *Panjanias* the Syrian Sophister, whose History *Galen* relates in his third book *De Locis Affectis*, Chap. 12. as also in the place forecited; who travelling towards *Rome*, fell out of the Coach, and receiving a blow about the seventh Vertebra, from whence a small Nerve is carried to the skin of the two little Fingers, in those two fingers the sense of feeling was lost, their motion remaining entire, because the Nerves which were carried to the muscles of those parts, remained unhurt. Now in the case propounded, it could not be so; because if the disease arise from the obstruction of the Nerves, we must grant that the Nerves which are carried to the muscles were grievously affected; for extenuation and Consumption never happen in a palsied part, but that the said part is first destitute of the influx of the Animal Spirit: for the natural faculty, when the Animal cannot act, is drawn into consent, and badly nourishing the part, causes a Consumption; but seeing by the integrity of motion, the integrity of the Nerves is apparent, we must conjecture that the foresaid Consumption is not caused by the Palsie; but that rather the impediment of sense depends upon the want of nourishment and dryness of the parts. Nor it is true, which was lately asserted, that all abatement and loss of sense is a sort of palsie, for in the disease *Elephantiasis*, sense is diminished and abolished, by reason of the dryness of the parts caused by black choler.

Secondly, from what hath been said, another argument may be collected: for leanness and want of nourishment do not happen to palsied parts, unless the palsie be confirmed. But Authors count the palsie then only beginning, when sense only is hurt, motion remaining undamnified. Whence it follows necessarily, that the foresaid want of nourishment does not at all proceed from the palsie.

Thirdly, seeing they term this disease a beginning palsie, 'tis strange the beginning of a disease should last seven years, and make no further progress; and that the fluxion, which possessed only a Nerve or two carried to the skin of the fingers, should not seize upon the greater Nerves causing motion, which touched the other, so as thereby to stop both sense and motion, and to cause an absolute and perfect palsie.

Fourthly, before the sense of feeling was impaired, there began first to shew it self a Leanness and Consumption of the muscles of the thumb, after which followed an impairment of the sense. Therefore the Atrophy of the part depends upon some other Cause than upon the palsie, and seems to be the cause of sense diminished.

Fifthly, those little bladders like burnings, which frequently afflicted the extremities of her fingers, argues the humor flowing into those parts to differ much from that which is wont to cause the palsie. Which humor truly is sent from the Liver not only to the fingers, but also to the whole half of the body nearest thereunto, for both the toes of her right foot were
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possessed

possessed with the same bladders, and also her right Leg was varigated with Tettors, and her right Arm was streaked with certain rivulets distinct from the ordinary Veins, running a straight Course under the Skin, and being coloured with a deep red, inclining to black and blew; whence clearly appears, that black Cholerick blood flowed into the part affected, which marring their nourishment, caused leanness and dryness; by which dryness the sense of feeling was diminished: For the wise Masters of Physick have taught us, that motion is furthered by dryness, but sense by moisture. And therefore when a part is rendered over moist, it becomes unfit for motion; and when it becomes over dry, it is unfit for sense. The like Rivulets do also appear in the right Leg of the Patient, like Varices, which evidently declare a fault in the Liver.

Finally, such things as help and hurt, do more and more declare the nature of this Disease: for as hitherto she never used convenient Medicaments, so by the use of baths and other hot things, and Medicaments very strongly resolving, being applied to the part, she was much worse than before.

Now although this latter opinion seems nearer to truth, yet if any man list to favour the former, persuaded with the last reason alledged in favour therefore, which truly is not to be slighted, he may think thus at least, that peradventure some deflux of Humors may effect some parcel of the spinal marrow, whence the immutation of sense may arise; but that the leanness and non-nutrimment of the part springs from hence, is impossible, as the reasons fore-alledged do plainly evince; and at least according to that opinion, we must say, that the leanness and immutation of sense are complicated Diseases, arising from different Causes. All which being supposed, which way soever your mind incline, the way of Cure will be still the same, as we promised at the beginning.

Proceeding therefore to the Cure from right Indications, we must use all our endeavour to amend the hot and dry distemper of her Liver, which is the original of all her Maladies; the Consumption and non-nutrition of the part must be amended, and we must procure it to be re-nourished, from which if the hurt of sense proceed, when the cause, viz. dryness is taken away, it will cease. But if this hurt of the sense shall be judged to arise from some harm of the Nerves, and from a fluxion from the brain into the back-bone; yet must we not therefore administer heating Remedies, which will encrease the primary Cause of the fluxion, namely the distemper of the Liver. Nor must hot Medicaments be mixed with coolers, for by them the distemper of the Liver will never be corrected, especially seeing in the forms of Remedies formerly prescribed according to this indication, hot Medicaments are much more prevalent than cold. Nor must external resolving Medicaments be applied to the part affected, because they will consume and dry the same much more, and will no ways serve to the Cure of the Disease: for if there be any obstruction of the Nerves, it is not in the hands, but in the original of the Nerves by the Vertebrae, and so we must imitate *Galen*, who in the *Syrian Pansanias* aforesaid applied those Medicaments with happy success to the Vertebra's of his Neck, which other Physitians applied to his two senseless fingers, with no effect.

Yea verily, and those Palsies which happen in hot and dry bodies, may be cured with cooling and moistening Remedies only, as *Trallianus* teaches, in his first Book, Chap. 16. in these words: The efficient Cause of the Palsie we may discern for the most part to be a thick, clammy and cold Humor. We must also know, that this Disease proceeds from an hot or dry quality, when an hot distemper has too much parched the Humors. And a little after: for if the quality shall be only hot and dry, then extenuating and heating Medicaments (for all such consume the Native moisture) do more burn the matter, and make it more thick. And in conclusion he adds the Cure by Diet and Medicines, purely cooling and moistening; which he avers to have been taught by experience, saying, I verily know one that was palsied by sorrow, care, and fasting; who thereupon taking Hiera, was so damnified, that he became wholly unmovable, and was at death's door, had he not been altered quite contrary, taking nothing but moistening things, potions, meats, and other things which brought him to a temper, especially frequent bathings, Oyntments of Water and Oyl, change of the Air into temperate, and all kind of Mirth. You may see a story not much unlike this in *Forrestus* his 97 Observation, in his first Book, of a certain youth, who in his Legs and Feet was destitute of sense and motion, with an extenuation and Atrophy of the said parts. And whereas by the use of heating and drying Medicaments prescribed by other Physitians, he grew continually worse and worse, he

he was in the end cured by *Forrestus*, only by giving him in, and applying without moistening Medicaments.

In the first place therefore she must keep a cooling and moistening Diet. Her meats must be of a good juyce, and easie to digest, especially the flesh of young Animals. In her Broths let her use cooling Herbs, Borrage, Sorrel, Endive, Lettuce, and Purslain. Let her abstain from all fryed, Salt and peppered Meats, from Pulses, old Cheese, and other thick and hot meats; let her drink weak Wine well allayed with water.

Especially let her avoid passions of the mind, and above all, sadness and anger; let her sleep very long, because nothing moistens more than sleep. Let her be always loose-bellied by Nature or by Art.

As soon as she is delivered of her great Belly, a month after her lying in, let her set upon the use of these following Medicaments.

Take Roots of Bugloss, Grass and Asparagus, of each half an ounce: Leaves of Endive, Cichory, Sorrel, Bugloss, of each half an handful. Boil them with a Chicken, and make Broth, of which let her take every morning for twelve days together.

In every third dose of Broth, infuse all night half an ounce of Senna, and one dram of Annis-feed.

After her first purging Broth, open the Basilica-vein of her right Arm, and take away seven ounces of blood.

When she has done with her Broths, let her go into this following Bath.

Take sweet Almonds bruised and Barley meal, of each one pound and half. Boil them in a bag for a Bath, into which, being lukewarm, let her enter morning and evening, long time from her meals. And let the decoction be renewed every day.

Take Oyntment of Roses, and Ceratum Santalinum, of each one ounce: Juyce of Cichory and Oyl of Roses, of each half an ounce; Trochiscs of Camphire one scruple, white Wax a little; Make all into an Oyntment, wherewith let the Region of her Liver be anointed when she comes out of the Bath, and is dried, and let her continue the use of it every day, when she goes into her bed for a long time together.

Take Whey of Goats-milk, made by boyling of the milk, and well clarified six ounces; Juyce of Cichory and fragrant Apples, of each one ounce. Let her take it in the forenoon, two hours before dinner, fifteen days together.

If the Season shall be too cold to use the Whey, let her use instead thereof a decoction of China, made after this manner.

Take China Root, cut into thin slices one ounce, Fountain water six pints, Juyce of Lemons three ounces, steep them together twenty four hours, then boyl them in a earthen pot glazed and well covered, till a third part be wasted away. Strain it through an Hippocras bag, and let her take six or eight ounces of it every day in the morning.

Take of the Juyces newly pressed forth, and clarified by settling, of Borrage, Bugloss, Fumitory, Cichory and Sorrel three pints; Juyce of fragrant Apples newly pressed out and clarified two pints and an half; Infuse therein eight ounces of Senna, new Polody of the Oak, and Epithimum, of each two ounces; Agarick freshly trochisked one ounce, Mace and Cloves of each one dram. Afterwards boyl them to a pint and half; in the strained Liquor, dissolve an ounce of Rhubarb, infused in some of the aforesaid Juyces, and one pound and half of white Sugar. Boyl them to a Syrrup, of which let her take two ounces in Chicken Broth, altered with the leaves of Borrage, Bugloss, Fumitory and Sorrel.

In the intermediate days, let her take every morning two hours before dinner, an ounce of the opiate made of Eglantine berries well ripened, duly boyled and passed through a Searse, and then reboiled with a sufficient quantity of Sugar, as Marmalade is usually made.

Sometimes let her use the Lozenges of a Diatrion Santalon, of which let her take two drams in the morning instead of the aforesaid Opiate, drinking a little Cichory Water after it.

If by reason of the injuries of the Season, she cannot this Autumn exactly use all the foresaid Remedies; she must repeat them afresh the following Spring, and then she must frequently bathe, and long use the Whey; for in these Remedies lies the chief force of the Cure.

Finally, the Waters of Meyne are very useful, and most excellent for the Cure of this disease. to which she may go about the beginning of the month of July, and use them a month together.

In the mean while from first to last, topical Medicaments must be used, and frequently applied to her diseased hand.

Take Oyl of sweet Almonds new drawn without fire two ounces, Oyl of Chamomel one ounce. Mix them, anoint the part hot morning and evening, and then wrap it up in hot linnen Cloths.

After the foresaid Oyl hath been used for 5 days together, use the following as long.

Take Oyl of Puppy-dogs and of Earth worms, of each two ounces: Oyl of sweet Almonds three ounces, use them as before. After that, for as many days more, let her use this following Liniment.

Take Violet Oyl, and Olive Oyl, of each one ounce and an half: Tarr two ounces: Oyl of sweet Almonds one ounce. Make all into a Liniment.

Finally, if the Disease stubbornly resist the foresaid Remedies, she must use this following Decoction.

Take Roots of Briony, Lillies and Marsh-mallows, of each three ounces. Boyl them in the Broth made of the Head, Feet, and Guts of a Calf or Weather; and in this Decoction, let her plunge her Hand and part of her Arm hot morning and evening, and hold it therein two hours. And let this be done after the use of the Bath for sixteen days together.

And to provide against that supposition of some matter settled in the original of the Nerves, she may use Oyntments and Liniments that powerfully discuss and dissolve, prescribed by her able Physicians, with them anointing her Back-bone hot for some days together. Done at Montpelier the 14. of August, 1631.

Read more of this in those excellent Books, *Johnstones Idea*, and *Riolanus Guide*, &c.

The 53 Observation or History of Famous and Rare Cures, &c.

Of prevention of Abortion.

THE Wife of *John Vicules*, a Citizen of *Montpelier*, miscarried three times one after another at several seasons of her being with Child. And now being two Months gone with Child, she had pains about her Navil and Loins, which threatned miscarriage. Another Physician had appointed her two Plaisters to be applied to her Navil and Loins, made of the roul of Plaster for fractures and dislocations, whereupon she was better for some days, but afterwards the same pains returned. I being called, and observing that the woman was young and sanguine, I caused her to be let blood, by which means in a few hours she was freed from her pains and fear of miscarriage. Her blood was full of wheyish moisture; Howbeit for preventions sake, I ordered her to take a dram of powder of Rhubarb in broth once a week for a month together. Also I willed her to anoint her Belly and Loins with an astringent Oyntment, the day before she purged, and to use an astringent Electuary the day after, but she did not make use of them. Those Symptomes came at the very time when she was wont to have her monthly purgations, when she was not with Child. Afterwards, when she was in her third Month, the same Symptomes returned, and she was presently freed by blood letting. Likewise, in the fourth, fifth, sixth, seventh and eight Month the same Symptomes periodically returning, she was again let blood, and they ceased. The last blood letting was performed eight days before the beginning of the Ninth Month, with the like good success, viz. On the 15 of January, 1632. And at the end of the ninth Month she brought forth a Boy well flesht and lively, but somewhat pale.

The 54 Observation or History of Famous and Rare Cures, &c.

Of a Semitertian Ague, with Head-ach.

ON the 12. of October, 1631. I was called to the Lady of *Lesignan* being sick of a continual Feaver joyned with an Ague, and heavy pain in her Head, also a pain in the tendons

done of her Neck, and a fluxion of the Rheum into her right Eye; whence I conjectured, that the pain of her Head was *idiopathick*, which she had caught by exposing her self to the cold Air of the Night; her Feaver was sufficiently slow and flegmatick, without thirst; I found her in the fourteenth day of her Disease; and she had been once let blood before, and had two purging Medicaments given her, also a plentiful sweat brake forth on the foresaid fourteenth day, but all did no good; her Feaver was still the same, which grew more violent towards the evening, with coldness of her extreame Parts, by which the fits were known. On the fifteenth and sixteenth days she was again let blood; afterward a Medicament was given her, and after some days repeated, of the Infusion of Senna with Cream of Tartar; also opening broths were given, because she refused Juleps and other internal Remedies; Fomentations and Oyntments were applied to her Hypochondria; which appeared to be distended. Because of her Head-ach, a Vesicatory and plaister were applied to the Suture; these things were continued to the twenty sixth day of the Disease, her Feaver continuing, the Urines being sometimes digested with a laudable swim; sometimes crude with a Swim very much divided, and many times of three urines which were saved in the night, the first and third were crude, the middle most laudable, which threatened that the Disease would be long. After the foresaid time, seeing she refused other Remedies, I gave her three days together half a dram of Salt of Tartar, and fifteen drops of spirit of Vitriol in a Decoction of Wormwood, whereupon she grew very well, and her Feaver was conquered. Howbeit her Urines remained thin, with a swim torn as it were in pieces; she was purged again, and so perfectly recovered.

The 55 Observation or History of Famous and Rare Cures, &c.

Of a Cough and Catarrh in an Infant.

THe Son of M^r. Boirarques, Comptroller in the Chamber of Accounts at *Montpelier*, eleven Months old, was sick of a Catarrh, with a continual Cough and Feaver; he frequently vomited flegm, he suckt much, and pist little. After many Medicaments used to little purpose, I ordered them to anoint the Region of his Kidneys with Oyl of Scorpions of *Matthiæ* thrice a day, whereupon he made Urine more plentifully, and his Catarrh was abated. For *Mercatus* says in his eight Book of the Diseases of Children, that Catarrhs happen in Children, sometimes by fault and through weaknes of the Kidneys, when they do not draw the wheyish humor; whence it comes to pass that the said humor being drawn upwards, becomes matter of Catarrh. If that Symptome had continued, those Remedies had been used which are propounded by the said *Mercatus*, Chap. 13. Where he treats of Urine in Children suppressed, as Clysters, opening Broths, &c.

The 56 Observation or History of Famous and Rare Cures, &c.

A Pleurisie.

A Tailor being young and Cholerick, and troubled with a Pleurisie; after many blood-lettings, and other ordinary Remedies; on the fifth day a Feaver violently continuing, with a pain in his side, he did take a roasted Apple with a dram of Frankincense, and drank thereupon four ounces of Carduus-Water, and afterwards being covered, he sweat a little, without any diminution of his Feaver; the day following he did sweat very much twice or thrice, and so recovered his Health.

The 57 Observation or History of Famous and Rare Cures, &c.

A continual Feaver in a little Girl.

IN the year 1632. in the Month of *January*, the Daughter of Mr. *Darene* a Lawyer, being seven years old, was sick of a continual Feaver, not very vehement, but more violent at cer-

tain times, *viz.* towards the evening. The Feaver began with a flegmatick vomiting, which was followed by a looseness continuing for a day, by which flegm was likewise voided, her breath was sour and stinking. I prescribed her a potion of a dram of Rhubarb, with an ounce of Syrrup of Roses: Before the Medicine was given her, there came another Physician that would have it omitted, and maintained that it was better to let her blood. Howbeit she took the Medicament, which she vomited up soon after, with thick and very putrid flegm. Then I prescribed her a Clyster, with half an ounce of *Diacatholicum*, to be given her about evening, with which and the other Medicament working together, she had five stools that night, consisting of Flegmatick, Cholerick, and very stinking matter. In the morning her Feaver was very small, and at noon she was freed therefrom, and restored to her health.

From this observation may be gathered how much those Physicians are mistaken, who conceive that in all continual Feavers, the Cure must be begun with blood-letting. Seeing that many times in Children the said Feavers arise from putrid Humors settling in the first Region, which are easily drawn away by purging, Now in this Girl, her vomiting of flegm and her looseness, did shew the redundancy of such an Humor.

The 58 Observation or History of Famous and Rare Cures, &c.

Of Cholick Pain.

THe wife of Msr. *Audifret*, a Citizen of *Montpelier*, was troubled with a most grievous Cholick pain the 22. of *January*, 1632. A Carminative and purging Clyster was administered in vain. I being called, prescribed another Clyster of a Decoction of Emollient and carminative things, made in a like quantity of Water and White-Wine, dissolving therein one ounce of Catholicum, two ounces of Honey of Roses, and four ounces of Aqua Benedicta. Presently after she had taken the Clyster, the pain ceased, she slept three hours, was afterward moderately purged, and her pain returned no more.

If you desire a competent knowledge in the Art of Physick, read *Riolanus* Guide to Physick and Chyrurgery, with *Johnstons* Idea of Practical Physick, and *Riverius* Practice.

The 59 Observation or History of Famous and Rare Cures, &c.

Cholick pain.

ON the 8. of *March*, 1632. Mrs. *da Varanda*, being sixty years of Age, was tormented with most grievous pains about the Region of her Loyns, Liver, Stomach and Guts: two Clysters were given her, with which she was lustily purged, and a great Cupping-Glass was fastened before and behind, her pains continued very vehement. I being sent for, gave her a dram of the Powder of Woolfs Guts in three ounces of Wine; her pain presently ceased. And the following day a purging Medicament was given her, to expell the Reliques of the Morbifick matter.

The 60 Observation or History of Famous and Rare Cures, &c.

Tissick, Inflammation of the Lungs, and palpitation of the Heart.

ON the 8. of *April*, 1632. the Widow of Msr. *de Sejelory*, a Citizen of *Montpelier*, starting out of her bed about midnight thinly clad, to a Window, was presently taken with great shortness of breath, like a fit of the Tissick, with a Cough, spitting of blood a Feaver and redness of Face. I being sent for, caused a Vein to be opened in her right Arm, and

and eight ounces of Blood being taken away, her shortness of breath presently ceased: Afterwards a laxative Clyster was injected, and a Julep given her of red Poppy-Water, Syrrup of Violets, *Sal Prunelle* and *confectio de Hyacintho*.

On the ninth day, at ten in the forenoon I visited her again, & found her in a Feaver, troubled with a Cough, and spitting of bloody matter; also she felt an heavy weight in the middle of her Breast, with an inward burning and pricking in many parts of her Chest. I caused her to be let blood in her left Arm, and that the Clyster and Julep should be repeated; to anoint her Breast with Oyl of Violets, and that she should lick frequently some Syrrup of Violets. After the blood-letting, she was presently eased, and that sense of weight and burning in her Chest were abated. At five of the Clock in the evening the same day, conceiving that vapors arose from beneath, and the humors into her Chest, which that shortness of Breath did sufficiently declare, I caused her to be let blood in the Saphena Vein, after which she was also better. The night following she took the foresaid Julep again, she slept but little.

On the tenth day in the morning she was better, her Feaver and other Symptoms were very remiss. About the third hour of the evening she had a coldness in her extreame parts, with a light sweat in her Feet and palms of her Hands, after that an acute Feaver, her Pulse very much depressed, and the sense of heaviness in her Chest very much augmented. Dr. *Ranchinus* the Chancellor was called to consultation, who conceived that it was a Pleurisie arising from Inflammation of the *Mediastinum*. And by common consent, she was let blood in her right Arm to seven ounces, after which also she was better, the other Medicines were continued; also Frictions, Ligatures and Cupping-Glasses were frequently applied to the lower parts.

On the eleventh day, which was the third of her sickness, moved with what I had observed in another disease of the same Patient, in which she was afflicted by turns with a flux of her Belly, joyned with a Tenasmus, and a Catarrh falling upon her Breast; so that as often as her Loosness stopt, she was grievously afflicted with her Catarrh; and when her flux returned, her Catarrh presently ceased, the humor falling into her Breast, being drawn downwards; I conceived that a purge would do her most good, which I made after this manner.

Take Leaves of Bugloss and Lettuce, of each one handful; Tamarinds half an ounce, Liquor is three drams, Violet flowers one pugil; Boyl all to four ounces. In the strained Liquor, dissolve one dram of Rhubarb infused in Bugloss Water with yellow Sanders, Manna, and Syrrup of Roses, of each one ounce. Make all into a potion; which she took in the morning, and voided much flegmatick, wheyish, sharp and stinking matter. Nevertheless the Disease was more violent towards the evening as formerly, yet her pulse was not oppressed as before, and the weight in her Breast was less. But she felt a pain about her right chanel bone, which encreased by handling the same; she slept little that night, she took Emulsions frequently.

The fourth day of her Disease, and the twelfth of the month, when as in the morning her Feaver and the pain in her chanel bone continued; Dr. *Ranchinus* was again called to consult, and besides the foresaid symptoms, she had a great palpitation of her Heart, which appeared also in her right Hypochondrium, also in her right side, but it lasted not long there. But about her heart it continued, and did beat like an hammer, violently: She was again let blood in her right Arm, and an Oyntment was appointed for the part pained, and Remedies to repel the humors to the lower parts. About evening the disease was again exasperated, and the palpitation continued: Some hours after she did sweat a little all her body over, by which she was a little eased. But her Palpitation and Feaver continued as before: When we began to suspect that her vapors did arise from her Womb, we prescribed her a Clyster for the Mother, Frictions, Ligatures and Cupping-Glasses to be applied to her lower parts. *Emplastrum Hystericum* was applied to her Navil, and a Julep was given her to assist her sweating, of Scabious and Carduus-Water with Bezoar-stone, and half an ounce of Orange flower Water, in regard of her Womb. In the night she had three large stools of stinking corrupt matter; After midnight she slept quietly till morning.

On the fifth day of the disease, I found her in the morning with a small Feaver, without any oppression in her Breast, or any pain, and with very little palpitation of heart. About evening she did sweat a little, and was better afterwards. After she had voided her Clyster, her Palpitation was augmented, her Feaver became more intense, and she was pretty well in the night.

On the sixth day all things were as before, in the evening Cupping-Glasses were applied with Scarrification, which did her good

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On the seventh day her Courses began to flow plentifully, by which means all Symptoms were very much abated.

On the eight day she was better.

On the ninth day she had a light looseness joyned with a Tenasmus, by which she voided few flegmatick excrements, and before that looseness she vomited much bitter stuff.

The Humors were prepared with temperate Apperitives.

On the tenth day, which was the eighteenth day of the month, her Looseness was less, at night it stopt quite; she had no Feaver. And after that she plainly amended.

On the 29 of the said month of *April*, when she felt her self exceeding well, and was busie about her Household occasions, as she was sitting in a Chair, she fell suddenly to the ground and died.

Her body being opened, her *Mediastinum* was found full of wheyish blood, which peradventure the Membrane being broken towards the upper part of the Lungs, and pressing the same, and the *Aspera Arteria*, might suddenly choak her. Moreover the whole substance of her Lungs was found full of a purulent matter, exceeding heavy: also her left testicle was as big as a small Egg, of a blackish colour, and as it were degenerated. Yea, and as soon as it was opened, there leapt out of the middle of her testicle a certain matter like a Nut-kernel, and very like a putrified Clotter of blood. We conjectured that to have been the cause of her Mother-fits, to which she was very much subject; yea peradventure the palpitation of her Heart arose from thence, viz. from filthy vapors ascending from that part.

The 61 Observation or History of Famous and Rare Cures, &c.

Of Symptoms after Abortion.

THe renowned Wife of Mr. *Desgardies*, on the twenty eight of *March*, 1632. suffered Abortion, by which she voided her secondines in the first place with much blood, whence extream weakness brought her in danger of her life. The flux of blood being stopped, the day after she voided her Child, now it was four months. And she seemed afterward to recover, and was indifferently purged: Howbeit an extream carrion-like stink was perceived in her purgations. On the seventh day she was taken with an intense Feaver, and voided that same fleshy Womb-cake which is called the Womb Liver, very stinking and full of black blood; whereupon she grew afterwards well by little and little.

The same happened in *Madam de Laroche*, who the fifteenth day of *April* the same year, having been four months great, and suffering abortion, did void her Child with the Membranes, and was therefore judged clear. Yet she afterward fell into a violent Feaver, with frequent shivering and faintings. After which she voided most stinking purgations, with clotters of blood and bits of flesh. On the seventh day she voided the foresaid Womb cake whole, which was extream stinking; whereupon she began to be better, and by little and little recovered.

These two stories teach us, that the purgations of the Womb, when they stink like a dead Carcase, do for the most part signifie, that there is some part of the secondines abiding yet in the Womb. See more of this in the Practice of Physick of the last Edition.

The 62 Observation or History of Famous and Rare Cures, &c.

Of Scabbyness.

A Young Man, Servant to Msr. *Grassetus*, one of his Majesties Judges, was tormented with a filthy Scab, with felons frequently breaking forth; of which diseases he could not be freed by blood-letting, and many Purges used at times, in the space of six months. At last there was given him one scruple of *Mercurius dulcis* and half a scruple of *Diagridium*, with which being excellently purged, he was in a few days freed from that filthy Scab.

The 63 Observation or History of Famous and Rare Cures, &c.

Belly-ake.

THe Wife of Msr. *de la Faverie*, having had the Jaundies for a time, of which she was imperfectly cured, she fell into a long lasting Tertian Ague, which being ended, a slow Feaver remained, with exasperations every other day, and hardness of her Liver. Upon these there followed a most cruel pain, which did at first torment the Region of the Liver, and afterwards the whole Belly, especially the Region of her Womb, her Courses being very little; Clysters were given her, Fomentations and Liniments were applied, with which the pain was very much abated, but especially by giving her half a dram of Sulphur powdered, mixed with one dram of Nutmeg; this was given her by another ancient Physician in my absence, and he kept it as a secret. But the pain was not quite taken away, and it soon returned again with no less vehemence, so that the Patient seemed to be now in danger of her life. The foresaid Remedies being repeated in vain, I prescribed her these following Pills, the 29. of July, 1632.

Take Aloes two scruples, Laudanum Opiate four grains, Diagridium six grains. Make all into six Pills; which after the Patient had swallowed at the beginning of the night, she slept an hour, and when she awaked, she profest her pain was quite gone. She slept indifferently the rest of the night, did sweat much, was very well in the morning, free from pain and Feaver; she was not at all purged, but in the morning she had a Clyster, and thereby voided many Excrements, which being repeated every morning three days together, her pain returned no more.

The 64 Observation or History of Famous and Rare Cures, &c.

Of a Liver-Flux and Dysentery.

ACertain Baker having had a Bloody-flux for two months, fell at last into a Flux of the Liver, wherewith he voided much watry blood, with other humors, with a Feaver and extream weakness; whereupon his Friends judging that he would quickly die, sent for the Divine and the Scrivener. I being likewise sent for, gave him four grains of Laudanum about evening, and within an hour his Flux stopped, and he went not to stool all that night, until next day at one, at what time his Flux returned, it was not bloody, but only Cholerick; but in the evening there was a little blood mingled therewith. On the same day in the morning six ounces of blood were taken from him in two Vessels, the last of which was hot, frothy blood. Cooling astringent Juleps were prescribed him, Epithems, and a cooling Oyntment to be applied to his Liver, and the tincture of Roses for his ordinary drink. These things were administered on the 14. of August, 1632. The night following was bad enough, and without sleep, with many Cholerick, and sometimes bloody stools. But on the fifteenth day he took a potion of Rhubarb, Tamarinds and Myrobalans in a cooling and binding decoction, with which he was much purged all day long, and very much weakened. At the evening he took the Laudanum again, and presently his Flux was stopt, yet he slept not all night. In the morning there was prescribed a binding fomentation of Roots, Herbs, and other materials shut in a bag, and boyled in red Wine and Vinegar, and so applied hot to his whole Belly. Also a Julep of the juyce of Purslane, Plantane and Services: and withall a strengthening and binding powder, to be used in Broths and Panadaes, and in the space of twenty four days he was perfectly cured.

The 65 Observation or History of Famous and Rare Cures, &c.

Of Mother-Fits.

THe Wife of Msr. *Mouretus* a Proctor, was taken the 15. of August, 1632. with frequent stomach sickness, which made her vomit a little flegm with great straining; pain at her heart, and

and a kind of Feaver, which appeared and disappeared many times in a day. Then her Courses appeared before their due time; I conceive she is troubled with some disease in her Womb, and I appointed her an hysterical Clyster, a Plaister of Galbanum, and a small potion of Orange-flower water, two ounces and four grains of Castorium. These things did her no good, and besides her Courses stopt. On the second day, when her stomach was sick, I gave her a potion of Salt of Vitriol, wherewith she vomited an huge quantity of Clammy flegm, with great labour and straining. On the third day I caused a Vein to be opened in her ankle, which did her much good. But on the fourth day she was troubled with faintings and languishings, so that she said she perceived the vapors arise to her heart. A vein was opened in her other ankle to no purpose: On the fifth day this following potion was given her, which is very good for such as are troubled with the Mother.

Take musk and Dragons blood, of each thirteen grains; Orange-flower water four ounces. Make them into a potion.

With this Medicine she was very much eased, and was better all the day after. But upon the sixth day her symptoms returned, with which she was also very much troubled the seventh day. On the eight she took one dram of Pilulæ Foetidæ, with which she was very well purged, and was so well afterward, that she needed no more Physick.

The 66 Observation or History of Famous and Rare Cures, &c.

A Dysentery.

THe young Son of Msr. Dorthes, two years old, was troubled with a stubborn bloody-flux; after many other Remedies given in vain, I gave him half a scruple of extract of Corals, with Plantane water, and the looseness was stopt the same day.

The 67 Observation or History of famous and Rare Cures, &c.

Cholick pains.

A Certain Courtier, when the King was at *Montpelier* on the 2. of *October*, 1632. fell into a certain most grievous Cholick pain, for the removal whereof, first a Clyster was given, emollient and purgative, after that a carminating and evacuating Clyster with Turpentine, with which he was eased, but the pain returned soon after. Finally I caused to be dissolved in a Carminating decoction four ounces of *Aqua Benedicta*, and one ounce of *Diaphanicum*. With which Clyster he had four stools, and voided much flegmatick matter, and was perfectly cured.

With the same Clyster Msr. *Verchand*, a Citizen of *Montpelier*, dwelling near *St. Firmins*, was freed from the like pain.

The 68 Observation or History of Famous and Rare Cures, &c.

Hardness of the Liver with a Cachexy.

MAdam de la Faverie after the Disease fore-described, Observ. 63. Was troubled with a Cachexy and palpable hardness of her Liver. By the use of these following Pills for twenty days together she was perfectly restored to health.

Take Calibs prepared with Sulphur half an ounce; the best Aloes, Senna, Agarick trochisked, and choice Rhubarb, of each one dram; powder of Diarrhodon Abbatidis half a dram, Saffron half a scruple, with Syrrup of Roses solutive make a mass of Pill-stuff. Of which let her take one dram every day in the morning, walking lightly after it; and after three hours let her take some Broths, wherein the Leaves and Roots of parsley have been boyled.

Because

Because these Pills did not purge, there was added twice or thrice four grains of Diagridium to one dose.

The 69 Observation or History of Famous and Rare Cures, &c.

A Disease resembling the Mother.

THe Wife of Msr. *Salgues*, a Merchant of *Montpelier*, which was tormented many days together with a pain about the Region of her Liver, with a light swooning, and a certain contraction of her jaws, flegmatick Vomiting: her pains returned by fits, and sometimes reached to other parts of her belly. Sometimes she was taken with such fainting fits, that she seemed as though she would presently give up the Ghost. Seeing it was conceived to be the Mother which troubled her, futable Remedies were used, but all the Symptoms did return afterwards. At last having used Baths, Fomentations and Clysters, she voided by stool a certain flegmatick compact and broad matter like a swatheband, of an hands breadth, and afterwards she had some stools of slimy matter, and at last was perfectly well.

If you intend to be skilful in Physick, diligently peruse my Guide to Physick and Chyrurgery, and the *Idea* of Practical Physick, and *Riverius* Practice. And be sure you don't scratch your head with a pair of Fools Fingers.

The 70 Observation or History of Famous and Rare Cures, &c.

The Dropsie.

A Certain young man, twenty five years of Age, being the Cook of the *Marquess De Varenas*, after a continual and intermitting Feaver, fell into a Dropsie tympanites, with abundance of Water joyned therewith; after many Remedies, and frequent Purgings, by means of which he voided much serosity and wind, and his belly grew lesser, which in twenty four hours time returned to its former greatness; at last with these two following Remedies used for fifteen days together, he was cured.

Take *Eryngo Roots*, *Madder*, *Smallage* and *Parsley*, bark of *Capar Roots*, middle rind of the *Ash-tree* and *Tamarisk*, of each one ounce: *Asarum Roots* half an ounce, *Leaves of Agrimony*, *Catarach*, *Maiden hair*, *Ground-Oak*, *St. Johns-wort*, *Wormwood*, *Centaury*, of each one handfull: *Carrot-seed*, and *Parsly-seed* of *Macedonia*, of each half an ounce. Boyl them in two parts of water, and one part of *White-Wine* to thirty ounces. In the strained Liquor, dissolve four ounces of Syrrup of *Gichory* with *Rhubarb*, Make it into an *Apozeme*, for four Doses to be taken four mornings, adding to every Dose half an ounce of *Diuretick spirit*, and one scruple of *Spirit of Vitriol*.

After the third or fourth dose of the *Apozeme*, he was purged with six grains of *Mercorius Vitæ*, and ten grains of *Scammony*, which caused no Vomit, only wrought downward.

The other Remedy was a Cataplasm of the Roots of wild *Cucumber*, made with powder of *Cummin-seed*. Whose discription you have in my Practice in the Chapter of a Dropsie.

The 71 Observation or History of Famous and Rare Cures, &c.

Of Small-Pox and Bloody flux.

A Boy five years old, the Son of Mr. *Limon* a Baker, being stricken sick of the small Pox, the third day was taken with a bloody Flux, with a frequent desire of going to stool, he voided flegmatick and snotty Excrements, with great store of blood. The Pox were small, white and flat; being called to see him, I prescribed as follows.

Take red *Rose-leaves* one pugil, red *Sanders* half an ounce, *Liquoris* scraped and whole *Raisins*, of each one ounce: boyl them in the broth of a *Wethers head*. In nine ounces of the strained Li-

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quor dissolve three drams of Confectio de Hyacintho, Conserve of Roses forced through a Searse half an ounce; one Egg: Make all into a Clyster, and give it oftentimes.

Take Water of Scabious and Carduus, of each one ounce and an half, Syrrup of dried Roses, one ounce, Coral prepared, and Pearles prepared, of each half a scruple; Bezoar-stone three grains, Confectio de Hyacintho half a dram, Make all into a Julep, which give him twice a day.

Take Oyl of Scorpions of Mathiolus half an ounce, anoint his Groyns and Arm-pits therewith frequently.

When he had twice used the Clyster, and twice taken the Julep, his Loosness was quite stopped, and the small Pox began to break out more powerfully, and the Disease was afterward perfectly cured, so that he had no further need of my assistance.

Although the Remedies propounded are common; yet this Case deserves observation, because of the extraordinary event thereof; of all the Children that ever I saw in my whole life that had the small Pox, and bloody Flux, none ever escaped but this: In others the Bloody Flux was a certain sign of death, especially when much blood came away.

The 72 Observation or History of Famous and Rare Cures, &c.

Of a Malignant Pleurisie.

THe Wife of Msr. Argelies of Frontinia about the end of March, 1633, was troubled with a most grievous Pleurisie in her right side. About the end of the seventh day, and the beginning of the eight, she was suddenly taken with a grievous palpitation of the Heart, so that her ordinary Physitian supposed the pangs of death to be upon her, and pronounced openly, that she would suddenly die. But I conceived this palpitation to proceed from some putrid matter contained in her belly, and sending vapours upward. The event shewed it to be so, for after two hours she went twice to stool, and voided many stinking excrements, and so the palpitation ceased. Her case was counted dangerous, because the Disease would not abate for seven days together though frequent Remedies were used, and she did seem abated; yet on the eleventh day there was a rising behind her ear, which struck in again the day following; and on the thirteenth day she died. Whence it was manifest, that her Disease was a Malignant Pleurisie, or rather a malignant Fever attended by a Pleurisie.

The 73 Observation or History of Famous and Rare Cures, &c.

Of a Bastard Pleurisie.

ABout the same time the Maid-servant of Msr. Germain, a Citizen of Montpelier, had a pricking pain in her side, with a Cough and white spittings, which nevertheless appeared twice or thrice bloody; she could lie best on her pained side, which was the right. Now she had no Fever, which shewed that it was no true Pleurisie, seeing such an inflammation cannot be without an acute Fever. On the seventh day of her sickness, the pain never ceasing all the while, she spit blood plentifully for some hours, after which followed the flux of her courses, and after that her Disease was perfectly terminated. I conceived the cause of this Disease to be a certain sharp wheyish humor brought into her side by the Veins, which caused a pain without inflammation. Which humor being much stirred on the seventh day, it opened some small Veins, whence her spitting of blood was occasioned. But Nature conquering, and sending the said wheyish humor to the veins of the Womb, the Disease was terminated.

The 74 Observation or History of Famous and Rare Cures, &c.

A Palsie and Convulsion, being Hypochondriacal Symptoms.

MSr. Fouquet a Physician of *Frontinia*, was troubled the foregoing Autumn with a very lasting double Tertian which lasted to the beginning of Winter, 1633. He was of a melancholick Complexion, being forty years old, he fed in the Lent upon bad diet; also had been troubled with very grievous passions of mind. After Easter he began to be troubled with a Catarrh falling upon his left Shoulder blade, where he felt a pain; a few days after he fell into a painful immobility of motion and sense in all parts almost, but especially in his Legs and Thighs. Moreover painful stretching happened by fits in the said parts, so that the toes of his Feet were contracted, and the Muscles near his Groins were stretched like cords. In his upper parts, especially his Arms, he could stir himself more freely: But in all parts, his sense was obtuse and dull, so that he affirmed he had little or no feeling in his Nose and Face. He voided at his mouth a thin humor, which he said tasted sharp and harsh like vitriol; every day his Fever was exasperated, and during the exacerbation, the tension of his muscles, his fluxion and other Symptoms were increased; also his Breast was very much straitened, so that he seemed to be stifled. At the beginning of his illness, he was twice let blood, and twice purged, and went to the Balerucan Baths; where he was four times put into the Bath four days together, and had his Head washed, to no purpose. Being returned from the Bath, he took my Advice. Now I judged that this Disease of his proceeded from a wheyish humor flowing from his Brain into the marrow of his Back, and all the Body of the Nerves: and that the said wheyish humor was first gathered in his Hypochondria, especially in the Meseraick Veins, where a great quantity of melancholy humor was contained, bred of foregoing Causes. So that I conceived this Disease of his was an Hypochondriacal affection, whose Symptoms were that same Palsie and imperfect Convulsion, bred of a wheyish humor, shed into the foresaid parts. An Argument whereof was both the melancholick Constitution of the Patient, as also the flowing of such an humor from his Mouth in great quantity, likewise the Fever wherewith he was troubled in a manner continually; and as the Fever encreased, all the Symptoms encreased; when as nevertheless a Palsie is wont to cure a Fever proceeding from flegm. Now *Sennertus* tells us, that such Symptoms proceed from a melancholy humor, treating of the Hypochondriacal Disease, and of the Survy. This is no Palsie properly so called, which is caused by the stoppage of the beginning of the Nerves, but abusively so called, being no total privation of sense and motion, by stopping the Influx of the animal Spirit through the Nerves, but rather a depravation of the sensitive motive function, because there is a painful sense.

I prescribed him an Apozeme for many days together of temperate aperitives, purging him one day, and altering another, and applying an emollient and opening fomentation to his Hypochondria, a Liniment of the same faculty; also blood-letting after the first dose of the Apozeme, a Clyster being premised, and a purging medicament. He used for his drink, the infusion of Tamarisk bark, Agrimony and Burnet. But the blood which came from him, appearing very full of bad juyce, he was let blood again. He found no good by his other Medicaments, but seemed to grow worse.

On the 24. of *April* I visited him again, and found him very weak with a continual flow Fever, which had nevertheless Paroxysms of a Tertian Ague. In which his Hypochondria were puffed up with wind by fits, especially his Spleen. Sometimes also by reason of the said Wind his Midriff was so compressed, that he would cry out, he was choaked and stifled; and having drunk a cup of Water, he belched twice or thrice, and was presently freed from the said suffocation. A fatty substance did swim upon his Urines like Cobwebs, and their sediments were of a mealy substance. Which kind of Urines are deadly, according to *Hypocrates*, in the second of his Prognosticks. On his well-day he did spit exceedingly, and felt the humor tickle down between his scull and skin, or the muscles of his face.

On the 29. of *April* I visited him again, being at the last cast, his pulse very small, his

spitting

spitting staid, and his breath stopt. Yet his understanding was unhurt : He died the day following in the morning,

If you mean to do good in Physick, diligently peruse *Riolanus* Anatomy, *Johnstons* Idea, and *Riverius* Practice.

The 75 Observation or History of Famous and Rare Cures, &c.

A pain in the side proceeding from Worms.

ABout the end of the month of *April*, 1633. the Daughter of *Raymund Michael* of *Frontinia*, being eight years old, began to be troubled with a Feaver and Cough, after which followed a pain in her side, so that she was supposed to have the Pleurisie. Howbeit, the fifth day of her Disease she voided three or four Worms by means of a Clyster ; and the days following she voided more, having taken Medicines against the Worms and a Purge, and so she was cured. Whence it appears, that Vapors arising from a putrid matter (of which Worms are bred) do cause pains of the side, a Cough, and other Symptomes, which make shew of a Pleurisie when there is none.

The 76 Observation or History of famous and Rare Cures, &c.

A Kings-Evil swelling.

ON the 6. of *June*, 1633. *Msr. de Gaian* brought his Daughter to me, being thirteen years old, of a sanguine Complexion, which appeared by the reddish colour of her Face, and she had her Courses ever since she was eleven years old. Having for eight months together had a certain fluxion upon the right side of her Face, a few days after it fell into the Neck, so that one of the kernels of that part seemed to be a little swelled. After that time the Tumor grew by little and little, so that it was now bigger than a Gooses Egg. She had many Remedies applied by a Physitian and Chyrurgeon in that place for two months together, Purges, sweating Decoctions, a Caustick to the nape of her Neck, also Remedies applied to the part ; first Resolvers, and Emollients, afterwards Suppurators and strong drawers, by which no good at all was done ; rather the Tumor which before was small, encreased greater. Whereupon I advising with *Msr. Delort*, Dean of the University, and *Msr. Thierry Hagenot*, an ancient Chyrurgeon : At first we sent to the Balerucan Baths, that she might use them in drink, bathing, and have them poured upon her Head. And afterwards we prescribed these following Medicaments.

Pulvis Artriticus to be taken with Ginger once every week, Blood-letting after the first Dose of the Powder.

Fomentation by a sponge wet in Chalk-Water, pressed forth, and tied hard on upon the part for ten days together. A Suffumigation of the stone *Pyrites* quenched in most strong Vinegar, and the smoak received by a Funnel, which shall cover all the Tumor.

After the Suffumigation, the Emplaister of *Vigo* with a fourfold quantity of Quick-silver, to every ounce of which Plaister, add one dram of Roman Vitriol.

A Diet-drink of *Sarsaperilla*, to be used a long time without Wine.

The infusion for the *Branchocela*, described in the *Dispensatory* of *Quercetanus*, which must be used when the Moon is in the full.

The Waters of *Meyn*, drunk for a month together, and applied by way of Fomentation to the part twice a day, and of the same Water a Diet-drink was made.

Her Diet was continually drying.

After her return from the Waters of *Meyn*, if the Tumor shall not be dissolved, it must be opened with a Caustick.

Those were the Remedies we ordered for her, and she used all of them, excepting the Waters of *Meyn*; because when the other things did no good, but the swelling rather increased, there was no hope from these Waters; but we thought best to come to open the Tumor which was done on the 19. of *September*, 1633. And when after a Caustick incision was made upon the Eschar, a very thin and clear Water brake forth, like Fountain Water, and the Tumor presently fell, and was well near as flat as the opposite part, which made us wonder, and we judged it worthy of observation. For I suppose no Author ever wrote of any such Tumor proceeding from Water, saving the *Hydrocele* and *Hydrocephalus*. Ten or twelve hours after it had been opened, she was troubled with an acute Fever, and a great fluxion happened into the part with Inflammation; on the third day the Fever ceased, after twice blood-letting, and twice purging. A Cataplasm of Bread-Crums was applied to the Tumor, which settled a little, and a certain Flegmatick quittor flowed out of it. The thirteenth day after it was opened, the Eschar formerly cut off, went out at the Ulcer; the case remained whole, and perfectly Membranous like a Sack, and a few days after she was cured.

The 77 Observation or History of Famous and Rare Cures, &c.

The Venereal Pox.

A Certain young man of a Cholerick and Melancholick Complexion, being infected with the Whore-masters Pox, in the month of *June*, 1633. underwent a sweating Diet, and afterward was anointed with Quick-silver. After the second anointing, when the flux began to proceed well, he was suddenly taken with a contraction of his Arms and Thighs, with a mighty stretching of his Belly, and suffocation, and suddenly his Flux ceased. Vehement frictions were used upon the parts contracted, *Aqua Imperialis* and Cinnamon Water were given him, which did no good. Afterward we gave him of our Treacle water, drawn with spirit of Wine, with which he was much eased, and a sharp Clyster being administered, his fit went away. Two days after, because he did spit but a little, Mercurial Emplaisters were applied to his Legs, Thighs and Arms, which within twenty four hours made him spaul abundantly. But the Patient fell into such a fit as the former, and being rubbed, and the former water being given him, also a Clyster being administered, which he could not void forth again; he was no ways eased by suppositories, but seemed wholly to be choaked. I caused another sharper Clyster to be given him of two ounces of *Diaphenicon*, and as much of *Hiera Picra*, after which he went plentifully to stool, and was freed from his fit. The day following he fell again after his spauling, into the same fit, but a more grievous one than any of the former; for it could not be driven away neither with Treacle-Water, nor with iterated Clysters, which purged him plentifully. Finally, seeing it was my Opinion from the first, that these Symptoms proceeded from a mass of Excrements in the stomach mounting aloft, which could not be voided at the mouth because of their sickness, or the weakness of the expulsive faculty: and being collected in great quantity and malignantly disposed, they vexed the mouth of the stomach, whence those Convulsions arose by reason of the consent of the Nerves. Also, that from the foresaid matter agitated by heat, many Vapors are raised, which distending the stomach, did compress the Midriff, whence followed suffocation, and a stretching of the Belly: I judged therefore that his stomach was to be evacuated with a quick and potent Remedy. And to this purpose, I gave him a dram of Salt of Vitriol dissolved in Water, with which in the space of a quarter of an hour, he voided about two pounds of a Flegmatick, Clammy and thick humor mixed with Melancholy, and was presently freed from his fit; afterwards his fluxing was continued for many days together, without any other Symptome, and so he was perfectly freed.

The 78 Observation or History of Famous and Rare Cures, &c.

Of Venereal Pox.

I Have Cured it in many, with a Decoction made of Sudorificks and Purgatives used twenty days together. If that did not the deed, I proceeded to frictions with Mercurial Unguents. Many have been Cured in the middle of Winter only with this Decoction, who could not use a sweating Diet, by reason of the Inclemency of the Air.

For this Disease, read *Sennertus* of the French Pox. And don't trust to a Knavish Author quoted by him, which giveth Direction how to lie with the most Pocky Whore, and yet receive no harm.

The 79 Observation or History of Famous and Rare Cures, &c.

Of a Pleurisie degenerating into an Empyema.

THE Son of M^r. *de Calvieres*, Judge of Criminal Cases at *Nismes*, being twenty years of age, about the middle of *May*, 1633. at *Montpelier*, fell into a Pleurisie of his left side, with which he was held in such a manner, that he could not lie on either of his sides, but only upon his back. Many Remedies were prescribed for him, by three Physicians in Consultation, and he was let blood ten times or more; yet his Disease lasted long, though the pain in his side seemed sometimes to cease, and the Patient could turn himself to any side. But his Feaver still continued, and the pain of his side returned. His Feaver had lasted to the thirty fifth day, in which his side was observed somewhat to swell, and was pained when toucht, and somewhat red. 'Twas judged, the Pleurisie was turned into an Empyema; and suppurating Cataplasms were applied, wherewith his side did swell somewhat more; the sixth or seventh day after when the opening of his side had been too long delayed (which ought to have been done as soon as ever the swelling in his side appeared) the Imposthume broke inwards. Howbeit the Patient did easily Cough up the quittor, which appeared laudable, and no ways stinking, and came away in a great quantity daily; at first pure, and afterwards mixed with much flegm. After the Imposthume was broken, he could easily lie on either side, his Feaver lasting, whereas before he could not lie on his well-side, because he felt a mighty weight again in his pained side, which sign is observed by *Hippocrates* in his Prognosticks. Eight days being past after the breaking of the Imposthume, the voidence of quittor ceased, and there came nothing away save flegm. Then he began to feel a weight again in the same side, so that he could not lie upon his sound side; also some kind of rising did again appear on the outer part of his side: I conceived a new Collection of Humors was made in his side, and that there was need speedily to open the same, lest the matter being again shed into the Chest, should trouble the Lungs afresh, whence there might be danger of a Consumption. But because the other two Physicians with two Chyrurgeons would not assent unto my Judgement, and his Mother made haste to remove him; he was carried to *Nismes*, where at last the Empyema was opened by a Caustick applied to his side, and quittor did a very long time flow from the Ulcer; and in Conclusion, the Patient was perfectly cured.

The 80 Observation or History of Famous and Rare Cures, &c.

Child-bed Purgations suppress.

A Woman of mean rank and quality, being eight months gone with Child, was taken with a continual Feaver the 5. of *July*, 1633. On the third day of the Feaver she miscarried, and her Child-bed Purgations were wholly stopt; purple spots appeared in her whole Body, especially about her Neck; her Feaver was violent. I prescribed the opening of her Ankle vein, and

and Juleps compounded of cold aperitives, Frictions of the Lower parts, a relaxing Fomentation and Liniment to be applied to her Share and Perinæum. No good seemed to come by a I did, rather about the end of the second day after her abortion, her Feaver was very much enraged, so that she fell into a raving, and her countenance was very much changed; whereupon every body was convinced that she was in a most dangerous condition. Then I caused a Vein to be opened in her Arm, and blood to be drawn to the quantity of ten ounces, which was very corrupt; it was about five a Clock in the evening, and I gave order to let her blood four hours after, viz. about nine of the Clock. I prescribed her very cooling Juleps of a decoction of Lettuce, Purslain, Sorrel, with *Sal Prunella*; also a cooling and emollient Clyster, with which Remedies she was so amended, that the day following her Feaver appeared very small, her Purgations began to flow, and in a few days she perfectly recovered without any other Remedies.

The 81 Observation or History of Famous and Rare Cures, &c.

Suppression of Urine by reason of a bit of Flesh growing in the Yard.

A Certain Officer belonging to the Senate of *Divion*, being at *Montpelier* about business the seventh of *July*, 1633. fell into a total suppression of Urine, by a Caruncle swelled in his Yard, through immoderate carnal embracements. A Chyrurgeon whom he at first sent for, putting in a Catheter, caused a great effusion of blood by wounding the part, and yet he voided no Urine. The sick-man was tormented with most grievous pains and endeavours to piss: I being called, ordered him to bleed twelve ounces, because he was of a sanguine Constitution; also to have an emollient and cooling Clyster, and a lukewarm Bath to sit in, a cooling Injection, and anointing of his Kidneys, Share and Perinæum, with a cooling Oyntment; it was nine a Clock in the evening, and I then ordered him to be let blood again about midnight, all which orders were performed. In the morning he was in the same condition, endeavoured mightily to make Water, but could do nothing, except four or five drops at a time. Being sent for again, I prescribed him a vomit of one dram of Salt of Vitriol, by help whereof, he twice vomited many flegmatick Humors; but in the second vomit he voided an ounce or two of Urine, and said that he was eased, which had not happened before. After that, by fits he piss somewhat more plentifully, so that within the space of four or five hours his Bladder was quite emptied. There remained some kind of Inflammation of the part affected, which was cured with Emulsions with *Sal Prunella* in them, with Injections, Clysters, and a Bath to sit in, and Inunctions.

The 82 Observation or History of Famous and Rare Cures, &c.

Difficulty of Breathing.

The Son of M^r. *Hugo*, a Merchant of *Montpelier*, five years old, having being ill ordered by his Nurses, among divers Symptoms was troubled most with this, that when he ran, or used any vehement motion, he was troubled with shortness of breath. Finally, on the third of *July*, being much heated by exercise, he fell into a Cough with difficulty of breathing, a small Feaver, and gentle looseness, by which he voided yellow, flegmatick, and sometimes greenish Excrements. Yet were these Symptoms so light, that his parents had no thoughts of calling a Physitian; but an Apothecary applied a vesicatory behind his Neck. I being sent for on the fifth day of his Disease, find the same Symptoms, from whence I conjecture a fluxion upon his Lungs, with danger of an Inflammation; and therefore I ordered him to be let blood, which was not performed, because the Chyrurgeon could not find the vein: but Cupping-glasses with Scarification were presently applied, and a pectoral cooling Julep was given him. These things were done about noon. But about three in the afternoon the Patient was suddenly taken with swooning, from which being quickly recovered, his pulse was afterwards small, languishing, frequent

frequent, and like the pulse of dying persons, his belly was very much stretched and pained, he fetcht his breath extream short, and had an unquenchable thirst. Many Remedies were used in this desperate Case, a Consultation of Physitians being called, which did no good at all; but the Patient growing still worse and worse, died at midnight. The body being opened, his natural parts seemed in good case, save that his Bladder of Gaul was bigger than ordinary, and full of a blackish Humor. But the left part of his Lungs did stick so fast to his Midriff, that it could not be parted, from whence, in part, we conceive his shortness of breath proceeded. Also the left Ear of his Heart was larger than ordinary, and full of a thick compacted matter, perfectly white like boyled Lard. Which we conceive to have been the cause of his sudden death, by suffocating the left Ventricle of his Heart, and hindring the Ventilation thereof.

For Knowledge and Cure of these Diseases, diligently peruse *Riolanus*, *Johnstons* Idea, and my Practice of Physick.

The 83 Observation or History of Famous and Rare Cures, &c.

Spitting of Blood.

ON the thirteenth of *August*, 1633. *Msr. Duprat*, a Councillor at *Montpelier*, fell about night into a spitting of frothy blood, with a Cough, and voided a great quantity thereof in the space of a night.

Being called to him on the fourteenth day in the morning, I order him to be let blood eight ounces, and after that to have a Julep of Plantane Water, Syrrup of dried Roses and *Sal Prunella*; after ward a Clyster was given him, a Cupping Glas was applied to the Region of his Liver, he used a thickning and astringent Lick-Pot. At ten a Clock he was again let blood to six ounces, also he was ordered to use Syrrup of Purslain. In the afternoon he fell into his spitting of blood again in great quantity, viz. to a pint: His Julep was repeated, Water and Vinegar were applied to his Testicles, a cooling Epitheme to his Liver, a cooling Liniment to the same part and to his Loins, a Cupping glass was frequently fastened to his Hypochondria; and about evening he was again let blood in his Arm, to the quantity of seven ounces; Juleps were prescribed of the infusion of Yarrow, Tormentil Roots, and Conserve of Roses; described in my practice of Physick, in the Chapter of spitting of Blood, which are very efficacious. For drink he used Conserve of Roses, with a Decoction of Barley and Liquoris. At night this following Syrrup was prescribed.

Take Syrrup of dried Roses, of the Juice of Purslain and white Poppy, of each one ounce; mix them. Let him take a spoonful once every two hours, so as that he take the whole three ounces in the compass of that night. This Syrrup did him wonderful much good, and the day following, which was the fifteenth, it was repeated again, so as that he was to take one spoonful at longer distances. On the same day in the morning a Vein was opened in his Ham; and a good quantity of blood taken away; also the other Remedies were continued, and other things added, as an astringent and soddering Electuary; and finally a Clyster was given him. All which time he did not spit very much blood, and the spittle which he coughed up at long distances, was bloody. Howbeit he was troubled with difficulty of breathing and hoarseness. But the following days he did spit no more blood, and became perfectly well.

The 84 Observation or History of Famous and Rare Cures, &c.

A Gangrene.

A Certain man of a mean Condition, being sick of a continual Fever, had a Vein opened by an unskilful Chyrurgeon; whereupon his Arm swelled, was inflamed, and at last Gangrenated, so that his whole Arm was of a lead colour. But in two places the colour was most of all changed, in which he felt not the Scarrifications which were made. Wherefore after many

ny Scarrifications, the ordinary Remedies were applied, which did little good, rather his Arm did grow worse. I being at last sent for, ordered the Scarrified Places to be moistened with spirit of Sulphur, whereby the mortified flesh was burnt and cauterized as it were. Afterwards I ordered his whole Arm to be fomented hot with spirit of Wine, wherein Aloes and Myrrh had been infused; afterwards the foresaid powders of Aloes and Myrrh were sprinkled in great quantity all his Arm over; and then were laid upon the powders, Linnen Cloths, wet in spirit of Wine; which Medicine being used for some hours together, his Arm in a miraculous manner returned to its natural colour, the swelling being asswaged, and the Gangrene stopped, so that the day following the mortified and burnt parts began to separate from the living flesh; unto which was applied a digestive made of yolks of Eggs, Turpentine and Honey; and after perfect separation, the Cure was finished with Epuloticks.

The 85 Observation or History of Famous and Rare Cures, &c.

Nephritick Pains.

ON the 10. of October, 1633. the Cook of Msr. de Miron, his Majesties Lieutenant in Languedoc, being many years troubled with pains in his Kidneys, which would not give way to ordinary Remedies; he took a Bolus of *Diaprunum Solutivum* half an ounce, *Panacea* one scruple. With which he was gently purged, made thick Urines, and was freed from his pain. While the Medicine wrought, he felt the matter drawn away from his Reins without any pain.

The 86 Observation or History of Famous and Rare Cures, &c.

A Cholick Pain.

IN the beginning of November, 1633. the Lady de Varanda, was most grievously tormented with Cholick pains, and after two Clysters taken in vain, she drank a dram of the powder of a Woolfs gut in Wine, which was given her the foregoing month for the same pain; as may be seen in the 59. Observation of this Century, and presently her pain went away. Now ten or twelve days after, though she had been purged with Apozemes, her pain returned more sharp than formerly; and though two drams of *Phylonium* had been dissolved in a Clyster, which she took, her pain ceased not. The foresaid powder was given again, and the pain became lesser, and within three hours went in a manner quite away. But the day after it returned more bitter than before. Five grains of *Laudanum* were given her, and her pain was quite taken away, and returned no more.

The 87 Observation or History of Famous and Rare Cures, &c.

Of an Ulcer in the Heart.

ON the 23. of January, 1634. I was called to the daughter of Msr. N. fourteen years old, who had for many days before been troubled with a vomiting of Flegm, which took her once or twice in a day, especially in the morning, with an Heart-burning, which troubled her by fits. Also she had a pain on the top of her left shoulder-blade, and on the top of her Arm where it was joyned to the shoulder. The night following, which was the fifth since she was first ill, she was taken with a Loosness and a Feaver, which held her all day. On the sixth day she took one dram of Rhubarb powdered with Broth, and had many stools; the Feaver continued, yet in the night she had but two stools, and slept two hours. On the seventh day her loosness continued, but not so frequent; so that she was let blood four ounces. These two things we always observed upon the coming of her Feaver, that her Pulse was in a manner
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always

always intermittent; and whereas the foresaid pain continued evermore fixed in the same dart, and did not at all reach unto the Chest; yet the Patient could not lie upon that side, viz. her left, but presently she was taken with the Heart-burning and Cough, so that she was always forced to lie upon her right side. A dry Cough vext her by fits, sometimes she voided wind upwards and downwards, and the same symptomes continued, especially heart-burning by fits, and a pulse unequally intermitting, and little sleep; she continued the use of cordial Medicaments internally and externally, also Worm-killers, and such as strengthened the stomach. When her heart-burning did very much trouble her, she took a scruple of Salt of Wormwood, with a spoonful of Juyce of Lemons; after which she was exceeding well for some hours; but her symptomes returned, at night her Urines were thick and sufficiently pale. On the ninth day a Vesicatory was applied to her Neck, whereby her Cough ceased; and before that, the pain of her shoulder was abated, and she could better endure to lie upon her left side. The same day she took one dram of the Infusion of Rhubarb, with one dram of *Hiera Picra*, and one ounce of syrrup of Cichory with Rhubarb, with which she was very much purged to good purpose, & her looseness continued some days, whereupon she seemed to be perfectly upon her recovery; though her pulse did still intermit in the third, fourth or fifth pulsation. After that she was risen out of her bed, the intermission of her pulse ceased, the frequency thereof remaining, and the Patient was troubled with a dry Cough, especially at night, with shortness of breath: Which symptomes continued for a long season; and besides difficulty of breathing, she had by fits a pricking pain in her side, which did more vex her when she lay on her well-side: her Feaver was continually violent; and contrariwise her shortness of breath was worse when she lay on her pained side. All which gave great suspition that there was an Imposthume in the left side of her Lungs. Finally, on the 34 day of her Disease she was taken suddenly with spitting of blood, which she voided by coughing to the quantity of eight ounces. Now the blood was thick enough, and not frothy, which the Patient her self said came down from her head, and that before the voydance thereof, she felt a tickling in her throat, also some blood came away, when she blew her Nose. Howbeit, in the evening, when her spitting of blood returned, it was apparent enough that it came from her Lungs, for it was altogether frothy, and was one pound in quantity. Whereupon she was let blood in the Basilica Vein of her left Arm, a Julep was given her of Plantane and red-poppy water and *Sal Prunella*, and syrrup of dried Roses, she used all night long syrrup of Violets, of dried Roses, and of Poppies mingled together, wherewith her Cough was allayed, her voiding of blood hindered, and she slept by fits. The day following in the morning she was again let blood out of her right Arm, her Julep was repeated, and many other Remedies usual in spitting of blood were prescribed in a Consultation with M^r. *Rauchinns* the Chancellor, and *Delort* the Dean of the University. She did again spit blood to the quantity of eight ounces, about eleven a Clock before noon; her Medicines were continued, and she was again let blood in her Ankle. At four a Clock in the evening her spitting of blood returning in a violent manner, she died suddenly. Her Carcass being dissected, the Lungs were found of a white colour, sticking to the ribs on both sides, and round about to the Midriff; also it stuck round about the Pericardium or Heart-bag, so as to make one continued body therewith. But the Heart was found whitish; and near the middle thereof where it looks towards the Midriff, it was eaten and ulcerated, so that semi-putrid-fleshy fibres might be pluckt away with the tops of ones fingers. And it was observed, that certain small bits of flesh very like these fibres were spit up with the blood she did spit. So that, most true it is, that this sick person did spit up the substance of her heart, which is very strange. And whereas in the Heart-bag no Liquor was found, we must suppose that the matter causing this Imposthume or Ulcer, was mingled with the blood, and voided by Coughing. Some such stories are to be found in *Schenkius* his Observations, the second Book, where he treats of Tumors and Imposthume of the Heart.

The 88 Observation or History of Famous and Rare Cures, &c.

A Dropsie of the Breast.

THE renowned Wife of the most noble M^r. *De Thomas*, the Kings Councillor in his Court, *Janet M^rsephier*, was troubled five months with a fluxion of thin humors falling upon her

her Lungs, with a dry Cough, difficulty of Breathing, and a continual and slow Feaver, which was more violent every night, with a slight shivering, after which followed very plentiful night-sweats, so that every night she was forced to shift her self three or four times. For some days the exasperations of her Feavers came twice a day; afternoon, and in the evening: in the day she sweat not, but always in her sleep. Also from the beginning of the Disease, she had a pain on the left side of the Region of her Breast, and she could hardly lie on that side; so that as soon as she laid her self on that side, she was taken with a most troublesome Cough, and more pained than before. Yea, and sometimes by pressing her side with the top of ones fingers, an exceeding great oppression of her Lungs, and difficulty of Breathing did follow thereupon. Whereunto was added the puffing up of her Spleen, joyned with some stretching, which is thought to have occasioned those other disorders.

Having consulted with Msr. *Ranchinus* the Chancellor, it was believed that her chief infirmity was in her left side, and that it was some Collection of the humors which oppressed the left side of her Breast. But what kind of matter was collected, could not certainly be known. Howbeit thus much may be avouched, that it is either Water or Quittor, for the signs of both concur; and the like is recorded by *Hypocrates*, where he says, in his second Book *de Morbis*, that such as are troubled with a Dropsie of the Lungs, are affected just as those that have a suppuration, only less violently and longer. Our opinion did more incline that it was a watry collection, because neither Pleurisie, Inflammation of the Lungs, nor spitting of blood had preceeded, nor had she ever voided purulent matter. She died of a Consumption, and gave charge before she died, that her Body should not be opened.

The 89 Observation or History of Famous and Rare Cures, &c.

Of Suppression of Urine.

MR. *Raymund Ratte*, sixty years of Age, a plethorick person, and troubled with the stone, who had been accustomed without any hurt to void many stones at times with his Urine; about the end of *January*, 1635. after he had voided many stones upon occasion of immoderate exercise, fell into a total suppression of Urine, which suppression (as was clearly apparent by signs) was in his Kidneys not in his Bladder. For three days together he had made no water, when I was called to consult with two antienter Physitians, the one of which was his ordinary Physitian, who during the three days aforesaid, had prescribed sundry Diureticks, both external and internal; Clysters, baths to sit in, potions, and the like. And before that he was called, the Patient had been purged with a gentle Cathartick. I delivered my Opinion in the first place, and said that the chief cause of this Disease, or at least which Foments this Symptome, is a mighty plenitude of the Veins above the Kidneys, which by reason of distention, caused by a plenty of the serosities, retained the space of three days, cannot easily contract themselves to expel the same, whence many times a difficulty of making water does arise. Now that there is a great plenitude of serous humor, is apparent both from the plenitude of the Patients body, as also because he has been used to drink much; and when he was in health, he was wont to make three or four pints of water every night. Therefore I judged that Diureticks were not to be used, which by bringing humors to those passages, might encrease their distention. But that rather some notable revulsions were to be procured by blood-letting and purging, and that blood should be taken away in good quantity as soon as might be; and that five or six hours after, a strong phlegm and water purging medicament should be administered. The other Physitians were of the same mind, and a pound of blood was taken away before noon; and at evening one dram of the powder of *Diacartabnum* without the feeds, was given him, which gave him many stools, and after four or five stools, he began to make water, and made first four ounces of blackish Urine, and a little after a greater quantity of red, and after that clear as water. He voided abundance of Urine in the space of a day, and was cured. Almost such another case was propounded in the first Observation of this Century.

The 90 Observation or History of Famous and Rare Cures, &c.

Pain at the Stomach.

ON the 25. of *January*, 1635. I was called by a Gold-smith of *Montpelier*, who for two months had been troubled with a most violent and perpetual pain in his his stomach, so that by the pain and want of rest, he was grown extream lean. During the said space of time, his ordinary Physitian had prescribed him twelve or fifteen gentle Purgations, and many other remedies both internal and external, not omitting Fomentations, Liniments, and such like. At last three Physitians being called to consultation, a vomit was prescribed of a decoction of Rhadish-seed, Orach, &c. Which are commonly prescribed to cause vomit; which having taken, he vomited not at all; and having taken the like Medicine again, he eased his stomach, and vomited plentifully, whereby his pain was not at all eased. Afterwards he was again purged, and a sweating Diet was prescribed him. Two days after his purging, before he began the use of his sweating decoction, some body put into his head to send for me, which he did about the evening, and told me the History of his Disease. And I to shew that he might have ease, at least for a time, prescribed him for that night five grains of *Laudanum*, with which his pain was wholly taken away, and he slept all night; whereas for three months, he had never slept longer than an hour. In the morning he said he was cured; Yet his pain returned, and could no ways be asswaged, but by giving him *Laudanum* divers times, and that for a small while, till at last he dyed of a Consumption. His body being opened, a mighty Schirrhus was found, which possessed the whole *Pancreas* and part of the *Mesentery*; also it went about the *Pylorus*, and the beginning of the *Jejunum Intestinum*; so that it did so straiten the passage from the Stomach to the Guts, that it was almost quite shut up, and his stomach was found full of meat and drink. Seeing therefore the nourishment could not be distributed into the body, he died of a Consumption. The Schirrhus could not be felt by the hand, because it lay concealed under the Stomach and Guts. It made so great a pain, because it possessed the *Pylorus* and the lower part of the Stomach.

For the Diseases in the eight last mentioned stories, Read the Guide to Physick and Chyrurgery, and the Idea of Practical Physick, with Riverius practice of Physick, of the last Edition.

The 91 Observation or History of Famous and Rare Cures, &c.

Of Worms.

THE Son of Msr. Gerard, being four years old, began to be sick, *January* the 25, 1635. of a Feaver proceeding from worms; with a vomiting of leek-coloured humors, and continual Stomach-sickness. I prescribed him an usual potion against Worms, to which was added because of the malignity (which was known by the humors voided, and by a kind of swelling all his Body over) four grains of Bezoar; also he had a sweet Clyster given him. Having taken the potion, he vomited two Worms, and voided one by stool with the Clyster. At night he took the potion again, and was next day well, so that his Friends did not desire he should take any more Physick. Two days after he fell into the same Disease, and was much more grievously tormented than before, with unquietness and continual groaning, even in his sleep. I presently prescribed him a potion of the infusion of Rhubarb in syrrop of Roses in Purslain-water, with which he had three stools of exceeding black excrements; and after his purgation all the Symptoms remained, as also his vomiting was encreased, so that he cast up all his Broths, and whatever he drank; whence it was, that the potion formerly given him against the Worms had now no effect (though formerly it did him so much good) because he vomited it up again. And therefore considering that he did not vomit the *Confectio de Hyacinthe* which was given him in Broth; I gave it him two times more, with an addition of four grains of Bezoar, whereupon he vomited no more, slept in the night, and was much better. Whence I conclude, and think it worthy of Observation, that Bezoar stone is of great efficacy in the

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Case of worms. He took the aforesaid purging potion again, after which he had a critical looseness, with which his Disease was very much abated; and at last with specified Juleps of a decoction of Scordium, and St. Johns-wort made with cooling things, it was perfectly cured, he being after his Juleps again purged with Senna, Rhubarb and Syrrup of Roses.

The 92 Observation or History of Famous and Rare Cures, &c.

An Imposthume of the Abdomen.

ON the 16. day of February, 1635. I was called to the Daughter of a Widow, sometime the Wife of John Peir, a Merchant at Montpelier, being fourteen years old, whom I had cured two years before of a beginning Dropsie, since which time she had been always sickly. And now she had been three weeks sick, without the advice of any Physitian. I found her sick of a continual Feaver, with a moderate looseness, whereby she voided many Flegmatick and crude Excrements. She told me also, that her belly did again swell, and that she felt therein at times a pricking pain; likewise her Legs did swell by fits. Presently I began to think that her Dropsie was returning, which that I might more certainly examine, I put my hand upon her Belly, which as I was about a little to press, she would not suffer me, complaining that I put her to pain. Whereupon, I supposing that such kind of pains were not usual in Dropsies; I called for a Candle, and looked upon her Belly; which I found naturally coloured, but raised and swelled, and that the swelling was round about her Navil five fingers in breadth, beyond which Circumference she might be touched without pain; but where the Tumor was, she was much pained if it were never so little compressed, especially on the left side, two fingers from her Navil, where from the beginning of her sickness she felt at times a pricking pain. Moreover, in the Tumor it self I perceived some Humor slipping to and fro, all which considered, I pronounced that an Imposthume was lurking between the *Peritoneum* and the Muscles of her belly, and that it was already come to suppuration; and presently I caused a Chyrurgeon to be sent for, who was of the same Opinion. And therefore we resolved to open the Imposthume as soon as might be, lest if it should break into the Cavity of her belly, it might cause sudden death. A Caustick was therefore applied to that part, where from the beginning she had felt a pricking pain; and after three hours an Eschar being raised, an Instrument was forced in two fingers deep, but no matter came forth. But the Chyrurgeon durst not force his lancet any further, lest he should make an hole in the *Peritoneum*, and so the matter should flow into the Cavity of her Belly. Wherefore he put a tent into the hole, which being drawn out three hours after, a little quittor came away. The day after the tent being drawn out in the morning, a great quantity of quittor came forth, being of a bad colour and smell. Howbeit the Patient grew worse and worse, so that she died the fifth day after the Imposthume was opened. Her body being opened, the muscles of her Belly in the place swelled, were found to be putrified on the left side near the Navil; and on the right side beneath the Navil, the Guts did stick fast to the *Peritoneum*; and the parts thereabouts were putrified, the Liver being very yellow did stick on all sides to the *Peritoneum* and the Midriff, and was so great as to fill half the Chest, and to be very near the Heart; all was full of Quittor and Corruption, and stunk abominably: moreover she was extream lean all her body over, being consumed away, by reason the Liver was not able to make blood.

And not only Imposthumes of the belly in a cronick disease, and a body ill affected, are deadly; but those also for the most part, which follow Feavers, either continual or intermittent, which *Hypocrates* has condemned in his Cronick Prognosticks. And Msr. Pachacius, a Physitian of Lunella, my friend, saw a young man that had a Tertian Ague, whose fits exceeded not the number of seven, yet an Imposthume happened about his groin, which being opened, sent forth laudable quittor at the first; but in the following days, there followed bad Symptomes, the quittor seemed worse, and the sick person died on the twentieth day: which Imposthume he might nevertheless have judged at the first to be mortal, because when it appeared, bad Symptomes appeared with it. Whereas Imposthumes tending to health, ought to bring with them an abatement of Symptomes. If the contrary happen, it signifies only a settling of the matter into that part, and not a critical Expulsion.

The 93 Observation or History of Famous and Rare Cures, &c.

Hard Labour in Child-bed.

THe Wife of the Baron Daumelas, General Treasurer of France, was three days in Labour, so that she was at last extremely weakned; I being sent for, prescribed her this following potion.

Take Dittamus of Crete, the two Birthworts, and Trochisks of Myrrh, of each half a scruple; Saffron and Cinnamon, of each twelve grains: Confectio Alkermes half a dram. Orange flower water and Mugwort water, of each one ounce and an half. Mix them into a potion, which when she had taken, presently her throws came upon her, and a little after she brought forth twins. The same happened to the Wife of Msr. Sartrey, when she was brought to bed of her first Child, she being the daughter of Msr. Boschius, an Apothecary at Montpellier.

The 94 Observation or History of Famous and Rare Cures, &c.

An immoderate Flux of Courses, with suffocation of the Womb.

A Maid servant of the Baron of Castries did suffer so plentiful a flood of Courses, that she voided four or five pound of Blood in the space of two hours: whence followed so grievous an Hysterical fit, that she lay speechless, and as it were dead; though her Eyes remained open, and she made signs with her hand, that she was strangled. Being called to her, I prescribed this following potion, fit both to stop her flux of Courses, and to assuage her Womb-sickness.

Take Water of Orange-flowers, of Roses and of Plantane, of each one ounce: Dragons blood twelve grains, Sal Prunellæ one dram. Mix them, make them into a potion, which she took again three hours after, having taken some broth between. After the first taken, all the Symptoms were abated; after the second, they wholly ceased.

The 95 Observation or History of Famous and Rare Cures, &c.

The Venereal Disease in a Child.

THe Son of Msr. N. being two years old, was by his Nurse infected with the whores Pox, which first discovered it self in broad red Pustules, which were thick upon his Peritoneum, after which followed Ulcers in his Buttocks, after that Pustules in his Face, and at last Ulcers in his Throat and Lips; also his body daily consumed. Being sent for to him, I prescribed these following Remedies.

Take Senna cleansed one dram and an half, Choice Rhubarb and Agarick newly Trochisked, of each two scruples; Cinnamon half a scruple. Infuse them in Carduus water, and in the strained liquor dissolve one ounce of Syrrup of Roses; make all into a potion, give it in the morning, and let him take it again once every week.

In the intermediate days between his Purges, he used this following Decoction.

Take Guaiacum wood one ounce, of the bark thereof half an ounce; Fountain water three pints; infuse and boyl them according to Art, till a third part of the Liquor be consumed. Let him take four ounces of the strained Liquor in the morning, without sweat, by reason of the coldness of the Air, for it was mid winter; also I feared lest his tender body should be over dried, for which cause also I allowed him a restorative diet. He did use the same decoction for his ordinary drink, but allayed with an equal quantity of fair Water.

When

When he had continued these Remedies for twenty days, all the Symptomes vanished, and the Child was nourished, even while he took his Physick, and at last grew fat. Now it was in the midst of Winter, and he seemed perfectly cured.

Howbeit within a months time the said Symptomes returned, and the Child was again grown lean.

We ordered that he should use the same Remedies again, only we made the Decoction a little stronger, by boyling the Liquors half away, and we covered him with Cloths that he might sweat a little. With this Cure he was again restored to health in the space of fifteen days, which nevertheless we had continued longer for fear of a Relapse, but that the extream coldness of the Winter did hinder us. Having therefore omitted his Medicaments for twenty days or thereabouts, the Ulcers were renewed. And because then the Air was mild enough, it being *February*, and the Wind in the South, I set afresh upon the Cure, but after a more effectual manner.

In the first place I gave him eight grains of *Mercurius Dulcis*, with four grains of *Diagridium* in broth, with which he was strongly purged by vomit and by stool; and every fourth day I gave him this Medicament: and in the intermediate days he took a Decoction, made after this manner. The foresaid quantity of the wood and bark of *Guajacum* was put into an Alembick, with one pint and an half of Water. They infused twenty four hours, and were afterwards distilled to the half, the Alembick being well luted. The Liquor which remained in the Alembick, was strained and mixed with the distilled Water, which was a little sharp; and of this mixture he took four ounces in the morning hot, and being well covered, did sweat lustily after it. This last Method of Cure was continued twenty days together, by which his Disease was quite taken away.

To the Ulcers on his Buttocks was applied an Oyntment made of Honey of Roses, Yelks of Eggs and Turpentine. And the Ulcers in his jaws were soon Cured by Honey of Roses, made sharp with Spirit of Vitriol.

The 96 Observation or History of Famous and Rare Cures, &c.

Immoderate flux of Child-bed Purgations.

A Certain woman having miscarried, was troubled with an immoderate flux of Blood, which did exceedingly weaken her. I ordered her to be rubbed and tied on the upper parts of her body, Cupping-Glasses to be applied under her Dugs, Epithemes also and young Pidgeons, and her hands to be fomented with hot Wine, in which *Confectio Alkermes* was dissolved, and to take this following potion.

Take Water of Plantane, Orange-flowers and Roses, of each one ounce; Sal prunellæ one dram, Dragons blood half a scruple; Mix them into a potion. Which was presently given her, before the other Medicaments were provided, and within a quarter of an hour the pains of her Belly and Loyns ceased, and her Flux stopped, so that she had no need of these other Remedies.

See my Directory for Midwives, and *Riverius Practice*, and *Riolanus*; all of the last Edition.

The 97 Observation or History of Famous and Rare Cures, &c.

A Cancer.

Mr. Chape of Tholouse, of an Noble Family, sojourning at *Montpelier*, in the year 1635. towards the end of Winter, was taken with a small push on his upper Lip, which turned into a Tumor that covered almost all his Lip, and it was hard and livid, with a pricking pain and sense of heat. By the advice of another Physitian he was frequently let blood, and gently purged, with Purges of Senna and Cassia, cooling Juleps being first used. And when he had for some days continued these Remedies, and the Disease nevertheless grew worse, leaving

ving his former Physician, he committed himself to my Care the second of *April*, in the year aforesaid. But I considering the foresaid signs, and that all topick Remedies, whatsoever did exasperate the malady, and made the pricking and burning pain more vehement; I conceived it was a cancerous Tumor, and although that Disease be accounted incurable, yet I undertook the Cure thereof, being taught by *Galen*, that a Cancer at first, while it is fresh may be cured, as we have it in the 10. Chap. of his second Book *ad Glauconem*, where speaking of a Cancer, he has these words; *I have often Cured this Disease when it was but beginning; but when it is grown large, it cannot be cured without manual operation*; and a little after, *this Disease I have (as was said) Cured at the beginning, especially when the melancholy humor was not very thick; for then it easily gives way to purging Medicaments, by which the Cure is effected*; and it is easie to conceive, that these purging Medicaments must purge black Choller. Which must be used so long as till the Patient have recovered his former health, using in the mean time such a Diet as may breed very good Humors. And according to the Rule of the said *Galen*, in the ninth Chapter of his Book *de atra Bile*, and his Comment upon the 47. Aphorism of the 5. Section, Those that are troubled with this Disease must be purged with strong Medicaments. Wherefore I conceived I must fly to the use of strong Remedies, the chief of which is the Root of black Hellebore, which is most effectual to purge Melancholy. Thus therefore I began the Cure.

Take Roots of Bugloss and Cichory, of each one ounce: Leaves of Agrimony, Borrage, Ceterach and Veronica, of each half an handful. Boyl all with a Chicken, and in the strained Broth, dissolve one dram of Tartar: Let him take this Broth in the morning, twelve days together.

In every fourth dose of Broth, dissolve two ounces of the following Syrrup.

Take of the Juices newly pressed forth and clarified by setting, of Borrage, Bugloss, Fumitory, Cichory, of each three pounds: Juice of Veronica and Fragrant Apples, of each a pound; Senna cleansed six ounces: Epithimum two ounces, Choyce Rhubarb and Agarick newly Trochisked, of each one ounce: Ginger and Cloves, of each one dram. Infuse them, and boyl them according to Art, till there remain fifteen ounces of the strained Liquor, in which dissolve the like quantity of Sugar, and boyl it to a perfect Syrrup, for the use aforesaid.

To the last dose of Broth, add four grains of extract of black Hellebore. Let him take it, and order himself accordingly.

This purged him very vehemently, both upwards and downwards, but the same day the Tumor was much abated, and without pain.

After the use of his Broths, he used a lukewarm Bath for three days together. Horse-Leeches were applied to his Hemorrhoid Veins, an Issue made in both his Legs; he drunk Whey boyled with Epithimum for a month, and bathed once every week.

Fifteen days after he had taken the extract of Hellebore, he took the same again with three drams of *Diaprunum Solutivum*, the operation whereof was like the former, and the same day the Tumor seemed to be abated.

All Topick Medicaments did exasperate the Tumor, and made the pain more intense, saving the Oyntment of green Frogs, which is exceedingly applauded by *Aquapendent*, *Chametaus*, and others, and it did very much in this Disease. So that I conceive the Cure thereof to be chiefly attributed to two Remedies, viz. Extract of black Hellebore, and the Oyntment of green Frogs. Yet the magistral Syrrup did much assist the Cure, which he used twice a week.

Within a month after the beginning of the Cure, the Tumor came to suppuration, and broke of it self, with quittor sufficiently good. The Oyntment aforesaid was continually applied to the Ulcer, and spread all over the Tumor; and the Tumor grew less and less, and was at last insensibly Evaporated, and the Ulcer was brought to a Scar.

The Oyntment of green Frogs is thus made:

Take Green Frogs that live among Trees, or in pure Waters, and put them in an Earthen Pot full of small holes in the bottome, and fill their mouths with Butter, cover the Pot close, and damb

daub the juncture with clay, and set it over another empty pot which must be set in the ground up to the brim; then make a fire round about fit for distillation, and gather the Oyl that drops into the pot in the ground, and mix it with the powder of Frogs into a Liniment.

The 98 Observation or History of Famous and Rare Cures, &c.

Of a flegmatick Inflammation of the Lungs.

Msr. Gualtier, General Treasurer of the Kings Exchequer, being sixty years of Age, was troubled with a flegmatick *Peripneumonia*; which was known by his Cough, difficulty of breathing, Feaver, pain under his right shoulder, and redness of his cheeks. And because he seemed very full of flegm, of which he had vomited a great quantity; he had a Clyster given him which wrought three or four times, and was the next day let blood, only once; and a purging Medicament was given of an infusion of Rhubarb, with Manna and Syrrup of Roses, with which he was excellently purged on the fourth day of his Disease, which was the 29. of May, 1635. and the day following he appeared free from his Feaver and other Symptomes. Whence it appears, that purging is sometimes good in a *Peripneumonia* or Inflammation of the Lungs, though it be for the most part pernicious to purge before the seventh day.

The 99 Observation or History of Famous and Rare Cures, &c.

A Consumption beginning.

IN the month of May, 1635. The Wife of Msr. Thomas a Councillor in the Exchequer Court, died of a Consumption; and a month or two after, her maid that had tended her night and day, seemed about to fall into the same Disease. For she had a lingring Feaver, with a dry Cough, which held her day and night, leanness of her whole body, want of Appetite, and want of sleep. I being sent for to her, ordered her to be let blood, and to have an universal purgation with an Apozeme, and luke-warm baths, with a thickning course of diet, and cooling; all which did no good. At last considering with my self that her disease proceeded from a Malignant quality, impressed upon her Lungs and heart, by way of Contagion, I prescribed her a decoction of *Guajacum* for fifteen days, without sweating, and a restorative diet. With which Remedy she was perfectly Cured. And her Feaver, Cough, and other Symptomes went quite away.

The 100 Observation or History of Famous and Rare Cures, &c.

Small pox.

THe Son of Msr. Boudon of *Languedoc*, being nine years old, and sick of a Feaver, which seemed to threaten the small pox, was committed to my care, in the month of June 1635.

The first day I commanded a Vein to be opened, and six ounces of blood to be taken away; and at night as much more to be taken; Juleps were prescribed him, and to be anointed with Oyl of Scorpions, and other ordinary Remedies. On the second and third day he raved a little. The small pox appeared, small, thick sown, and flat. Then encreased by little and little, but very slowly, so that on the sixth day his Face seemed not all at swelled, the Pox were flat in his Face, and all his body over, and hollow in the middle, yea and some of them were black in the middle. His Parents were the more fearful, because they had lost three Children of the same disease, whose Pox were just like these of our Patient. I therefore thinking it

best to fall to work with the most effectual Medicaments, prescribed him this following Julep,
Take Carduus water, three ounces; Treacle water, three drams, Trochisks of Vipers, one scruple; Bezoar stone, six grains. Give it in the evening.

Young Pigeons were applied to his Heart, and afterwards a Liniment of Treacle, *Confectio Alkermes*, and Oyl of Scorpions of *Mathiolus*.

In all his broths a Scruple of *Bezoardicum Minerale* was dissolved. The day following, which was the seventh of the Disease, he had three stools of a matter sufficiently thick, but of a perfect Lead colour. At the same time he voided most thick Urines, and the breaking out of the Pox was so furthered, that in a days space, his Face was much swollen, and from that time forwards the Pox grew sufficiently great. The *Bezoardicum Minerale* was continued for a day longer, and afterwards *Confectio de Hyacintho*, which was given him at first. Till at last the Patient was perfectly freed from that Cruel Disease.

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THE
SECOND BOOK
OF THE
Medicinal Observations,

And Remarkable Cures of

LAZARUS RIVERIUS,

*Councillor and Physitian to the King, and Professor of
Physick in the University of MONTPELIER.*

The 101 Observation or History of Famous and Rare Cures, &c.

Cholick pain.

THE first of July, 1635. Msr. Sarret Visitor General of the Salt-pits, being forty years old, was taken with a most grievous Cholick pain, which could not be asswaged, neither with Laxative and Carminative Clysters, and *Aqua Benedicta*; nor with Fomentations and Baths to sit in, used for twenty four hours. His pain therefore continually raging, I prescribed these following Pills.

*Take of the best Aloes one dram; Diagridium eight grains: Laudanum Opiatum five grains.
Make all into six Pills, and let them be gilded.*

He took these Pills at Midnight, and at four a clock in the morning his pain was quite gone, and he was purged five times that day, and so was perfectly cured.

The 102 Observation or History of Famous and Rare Cures, &c.

Small-pox, and Loosness.

THE Son of Msr. Grasset, a Councillor in the Court of Accompts, five years old, was sick of the small Pox, with a Loosness, which continued during the whole course of the Disease. On the seventh day of the Disease, which was the 15. of August, in the year 1635. his Loosness

ness was much more violent, his Fever high with mighty thirst; the Pox were flat, because the looseness did hinder their rising. Other Remedies having had all along little effect, I prescribed him this followidg julep, respecting his Looseness and the malignity of the Disease.

Take Roots of Cinquefoyl and Tormentil of each one ounce; Scabious and Pimpernel leaves of each one handful; Scordium a pugil; yellow Sanders two drams. Boyl all to twelve ounces of three doses, to be taken twice a day, adding to every dose half a dram of Confectio de Hyacintho, half a scruple of trochisks of vipers, and four grains of Bezoar stone.

After he had taken once of his julep, his looseness was abated, the Pox rose high, and his thirst was lessened.

In very many children besides, the same potion did wonderful much good, in stopping their Looseness, and in raising the Pox when they were flat. To it I added, Rose water and Orange-flower water, of each half an ounce. It did wonderful much good, where there was no looseness, the Pox being flat; and thus I compounded it for the most part.

Take Roots of Cinquefoyl and Tormentil of each ounce: Leaves of Burnet and Scordium, of each one handful; Yellow Sanders and Shavings of Ivory, of each two drams, Boyl all to twelve ounces. In three drams of the strained liquor dissolve Orange-flower water and Rose-water of each half an ounce: Trochisks of vipers one scruple. Bezoar stone four grains, make them into a potion, give it all at once, twice in a day to such as are big: but to sucking children give frequently a spoonful.

The 103 Observation or History of Famous and Rare Cures, &c.

The after-birth retained.

THe honourable Wife of M^r. Grasset, Councillor in the Court of Exchequer, in the beginning of *October 1635.* having miscarried of a three months conception, and brought forth a very well shaped child; had her after-birth retained. Whereupon she was long troubled with the whites, and perceived a kind of a stink in her mouth, which vanished after some days. She voided certain pieces of a membranous substance, but very few and small. Whereupon the woman avouching that she had voided her after-birth by piecemeal, I was still of a contrary opinion. By little and little she recovered her former health, the white flux still continuing. Howbeit, after two months and an half, she was taken with an immoderate flux of her courses, with which her after-birth being dried, was voided piece after piece. Which is very well worthy of observation, that the after-birth could be so long retained in the womb, without grievous detriment to the patient.

The 104 Observation or History of Famous and Rare Cures, &c.

Of a watry Rupture in an Infant.

THe Son of M^r. de Aumelas, General Treasurer of France, being eleven months old, had a watry rupture in his right Testicle, with a matter contained in the proper membrane of the testicle called *Dartos*; so that the testicle seemed as big as a small Egg. And this tumor had troubled him from his birth, which they had long laboured to discuss, by applying Cotton-wool smoaked with Frankincense. At last they sent for me, and I prescribed a Cataplasme in the beginning of *November, 1635.*

Take Bean-meal half a pound, boyl it in strong rich wine to the Consistence of a pultis, then add three drams of Oxymel simple. Make all into a Cataplasme or pultis, and apply it morning and evening.

In the space of eight days, with this only remedy, the tumor was quite discussed.

The 105 Observation or History of Famous and Rare Cures, &c.

Worms.

ON the 25 of November 1635, a Boy four years old was troubled with worms, that he was tormented with a grievous pain in his belly, with extream weakness, so that his pulse could not be perceived in his wrist, his Eyes were hollow and void of spirits, just like the Eyes of dying persons. He had been sick three days, and voided four worms at his mouth, with a vomit of black humors. An Apothecary had given him potions against the worms, and a purging potion of Electuary of *Diacarthamum*, and Rhubarb, which wrought not at all. I prescribed him powerful Remedies against the worms both internal and external, which did no good. The next day he continued in the same condition. I ordered him to take eight grains of *Calomelanos* of *Turquetus*, and six grains of Scammony, with which he was purged and voided a clammy, glewish and putrid matter, with two worms. He had two stools, was very much eased, and within a few days perfectly recovered.

If thou meanest to make profitable use of these Histories, resolve neither to be Fool or Knave, but before you read over with care my Guide of Chyrurgery and Physick, the Idea of Practical Physick, and *Riverius* Practice: all of the last Edition.

The 106 Observation or History of Famous and Rare Cures, &c.

Pain of the Hemorrhoids.

THE 21 of December 1635. Mr. John Charanton of *Montpelier*, having walked on foot to a village two miles from the City, thick clad, he was exceedingly heated, by which means his humors were very much stirred, and settled to his fundament, whereupon his Hemorrhoid veins did exceedingly swell, with Inflammation and a most sharp pain. All the following day he was exceedingly tormented, and past the night without any sleep. The day following he rode to town, resting himself upon the stirrups with great pain, whereby the tumor was very much irritated. I being called in the afternoon, caused him to lose seven ounces of blood; in the morning he had two stools. About evening, because of the vehemency of his pain, he was again let blood. In the evening he took a julep with Syrrup of Poppies, And he used four times in the night a fumigation of great Housleek boyled in Whitewine; he slept by fits, and the tumor was asswaged, and the Hemorrhoids abated in their distention, and by continual use of this suffumigation and of pain-asswaging liniments, he was quickly Cured.

The 107 Observation or History of Famous and Rare Cures, &c.

Children dying in the Birth.

A Dyers wife of *Nismes*, from the time that she had been married, had three times brought forth a mature Child, in the ninth month; she had the ordinary throws of women before the birth, without any unusual troubles; so that her Labors were not very hard or troublesome; nor was the woman of an ill Habit of body, nor had she any disease upon her, or any thing preternatural in her child-bed pains, the child sufficiently stirred it self in her womb; yet when it came into the world, it was found dead, and this had happened three times. Her Physicians after her second birth prescribed her purgations, and a sweating diet, also she changed her midwife. Yet the third child was found dead, in the same manner. The cause and cure hereof is demanded. Since no cause is related in the History, it is exceeding hard to conjecture the same. Yet, to speak my opinion, I say these cases happened, either through the childs weakness

weakness, or the straitness of the womb or its neck, in time of Child-birth. The weakness of the Child contracted from some hidden fault of the seed or mothers blood, might cause, that when the child did most endeavour to make its way into the birth, it might faint away and die as an eight months birth does for that cause necessarily perish, because it made some endeavour in the seventh month, which if it repeat in the eighth, it faints away and dies. If therefore a double endeavour does unavoidably kill any child, a child that is weak may well perish by one endeavour. Also this weakness might cause the child's death another way, inasmuch as being brought into the world, by reason of the said weakness, it might be unable to endure the air and light, and be killed by them. And finally, it might proceed from the straitness of the womb or its Neck, because at the time of birth, it does collect and purse it self to force out the child; and if the said constriction shall be too violent, it may choak the child. The same may happen from the neck of the womb, if it too much contract it self when the child comes into it; for by that straitning of it self it may destroy the child. These things thus propounded, the remedies are to be directed to two ends, viz. To strengthen the child, and to hinder the over great constriction of the Womb.

In the former respect, the parents must use a laudable diet and of good juyce before the Conception; that pure and faultless seed may be ingendred. Also the mother during the whole time of her being with child must use the like diet, that she may afford good blood to nourish the child with. Moreover let her use this following powder twice a week.

Take Kermes berries, shavings of Ivory, Coral, and Pearls prepared of each one dram: Mastich half a dram: Magnus Christi pearled two drams; make all into a powder, whereof let the dose be a dram, in a soft egg, or in broth.

Let her other whiles instead of the powder use this following Opiate.

Take Conserve of roses two ounces; preserved Citron peels one ounce; Myrobalans preserved, and Nutmegs preserved, of each half an ounce; coral prepared, and pearls prepared of each one dram; shavings of Ivory, half a dram. Make all into an Opiate, with syrrup of preserved Citrons, of which let her take the quantity of a Chesnut, once or twice in a week, instead of the foresaid powder.

If at last she grow weary of both these, let her use these following Lozenges, which are very pleasing to the tast.

Take Confectio Alkermes three drams: Ambergreese one scruple. Sugar dissolved in Orange-flower water and Rose-water four ounces, make all into Lozenges, which she may use at any time, when she takes not the former medicaments.

When she is entring into her ninth month, let these following things be applied to her belly, in the morning for the space of half an hour.

Take generous wine three pints, beat it and dissolve therein Oyl of Nutmegs half an ounce, powder of cloves and Kermes berries of each three drams. Mix them and let a Sponge wet in this Liquor, be applied to her Belly upon her Navil hot, twice a week.

Take Nutmeg, Mace, Cloves, and Cinnamon, of each equal portions: mix them with white honey, into the the form of a Liniment and spread them upon a crust of toasted bread, and apply them to the Navil every morning when the fomentation is not used.

Take Orange-flower water, and Rose-water, of each three ounces: Cinnamon water one ounce. Mix them. Let her take one spoonful every morning, during the whole ninth month.

At the time of her labour, give her in every draught of broth half a dram of *Alkermes* made according to the description of *Mesue*, by reason of the dose of Amber; and an hour after every broth, give her a spoonful of Cinnamon water.

To her Navil apply frequently a piece of hot flesh half roasted, and sprinkled with the powder of Cinnamon Nutmegs, and Cloves.

In respect of the straitness of her womb or its neck, if she be not with child, let her frequently use, when it is not winter, a bath to sit in made of an emollient decoction. When she is with child, from the beginning of her ninth month to the day of her deliverance, let the neck of her womb and the *Perineum* be anointed with Lin-seed Oyl drawn without fire. Given at *Montpelier, December 24. 1635.*

The 108 Observation or History of Famous and Rare Cures, &c.

Of Wandering Pains about the Chest.

Msr. *Raymundus Melgoriensis*, fifty years of Age, of a Sanguine complexion, returning from being a Souldier in *Italy*, he complained of most cruel pains, which tormented him every night, after his first sleep; and these pains began in his left side, and reached with all to the fore and hinder part of his chest, also to his left side and shoulder blades, with so much vehemency that he was thereby suddenly awaked, and could not in any posture find rest in his Bed, but was compelled to rise. Those pains continued to the morning, and then ceased. Nor is there any shew of them all day long. He began to be vexed with them now two months since, and had never used any Remedies. Another Physitian who had formerly prescribed for him, conceived that these pains proceeded from a thin Catarrh, falling upon those parts in the Evenings, at what time the flegmatick humor is accustomed to move. But I conceived these pains proceeded from winds, which are raised only in the night, by reason that the natural heat is then made more intense by the Concentration there of through sleep. The matter out of which these urines are raised, is a redundancy of bad and crude humors in the stomach, Mesentery, and especially about the Liver. Now these Humors were collected in the Camp, through bad diet. Hence also the concoction of his Stomach was weakened, whence it comes to pass that the cruder part of his meats, infected likewise with bad humors, is turned into winds, which run into all places. And when digestion is finished, no more of these winds are sent up, and consequently the pains cease about the morning.

For the Cure of this disease, I prescribed in the first place an Universal Evacuation by Apozemes and blood-letting, which being finished, I prescribed him a decoction of China for fifteen days with the use of which medicaments, the disease was by little and little diminished; and in a months space cured without any other Medicine.

The 109 Observation or History of Famous and Rare Cures, &c.

Jaundies in a Woman with Child.

THe Honourable wife of Msr. *De Amelas*, General Treasurer of *France*, about the end of the seventh month of her being with child, by some house-hold occasion was vehemently provoked to anger, after which she vomited in the morning, had a pain in her Stomach, and became sick of the jaundies. Now this jaundies of hers had two peculiar properties; one, that in her bed the colour of her face and whole body, was a very remiss yellow: but when she arose & stirred a little, it began to grow more deeply yellow all of a sudden. The other is, that she was not Costive as people ordinarily are in the jaundies, but voided cholerick stools. Her urine was red, but did not colour the cloaths put into it. I being her ordinary Physitian, called for Msr. *Rhanchinus* to consult with, that we might consider about letting her blood; for on the one side, the Procatarrick cause perswaded bleeding; for in all Diseases arising from Anger, blood-letting is extremely convenient, by reason of the extreme commotion of blood thereby raised. Moreover, those Cholerick Evaporations suddenly seizing her, upon a light motion, did argue that her blood was very much exagitated. Nor did this disease arise from the obstruction of the Choler passage (in which case *Galen* forbids to let blood, in his book of blood-letting) because then her belly would have been bound, and her stools white; but rather from the Liver being inflamed and over-heated. On the other side, her being now long gone with Child, seemed to dissuade us from blood-letting; and seeing the patient by reason of her disease was in danger of death, if it should happen that she died after blood-letting, the fault would be attributed thereunto. For these last Causes, Msr. *Rhanchinus* would not consent that she should be let blood: but it was agreed to give her one dram of Rhubarb in substance, that the

Choler

Choler might be carried away by little and little by stool; which was done. The Rhubarb did little good, and the patient after five or six days miscarried. Peradventure letting of blood might have prevented the same. But the ill conditions of our Women in ascribing all bad events to the Remedies used, is the cause that even the more prudent sort of Physicians do sometimes to avoid Calumny, abstain from the use of most profitable Remedies.

The 110 Observation or History of Famous and Rare Cures, &c.

Of a Quinsie.

ON the 18. of *February*, 1636. a certain young man, a digger, was troubled with so vehement a Quinsie, that he could neither speak nor swallow, yet he breathed well. When I was sent for, he had taken a Clyster. Whereupon I caused him presently to be let blood ten ounces. Then a Vesicatory was applyed to the Nape of his Neck, and Cupping-Glasses with Scarification to his shoulder blades. And four hours after his bleeding, he took two ounces of *Aqua benedicta*, with which he was purged up and down; and after that, he began to speak and swallow, and a little while after did perfectly recover.

The 111 Observation or History of Famous and Rare Cures, &c.

Hysterical and Hypochondriacal Symptomes.

ON the 15. of *March*, 1636. the worthy wife of Msr. *de Clausel*, a Councillor in the Court of *Exchequer*, being fifty five years old, of a Flegmatick and Melancholick Complexion, and sickly, fell by reason of long grieving, into divers Symptomes, which vexed her frequently, but especially in the night. She had pains in her whole left side, from her Ribs down to her belly, so that she could not lie upon that side; she had flegmatick and slow vomitings, Headach, Heart-burning, and fainting fits so violent, that she thought she should presently die; she had shiverings and tremblings all her body over, after which she fell into sweats; her pulse was very small, languishing and weak; she had frequent belchings, by reason of abundance of wind breaking out of her mouth. When I was first sent for, I appointed her a Carminative and Laxative Clyster, a potion of the Waters of Orange flowers, Roses, and Cinnamon bags, and Oyl of Nutmegs to be applied to the region of her Stomach, by which she was much eased and freed from the foresaid Symptomes. But because they frequently returned, she purged twice in four days. And her Symptomes returning again, I gave her two grains of *Laudanum Opium*, with conserve of Roses in form of a Bolus, when she went to sleep; wherewith in an hours space all her Symptomes were quite taken away, and she slept quietly; nor did those Symptomes return any more so violently, but they were much gentler. Afterwards she was purged twice a week with Specifick pills, with which she grew every day better. And so she was at length restored to her perfect health.

If thou meanest to be helpful to thy self, or thy neighbours, bestow so much money and pains as to peruse the Guide to Physick and Chyrurgery, The Idea of Practical Physick, and *Riverius Practice*, of the last Edition.

The 102 Observation or History of Famous and Rare Cures, &c.

Cholick pain.

ON the 22 of *March*, 1636. the widow of Msr. *Dortis*, having been many years troubled with an exceeding hardness and distention of her whole Belly, whence by fits she was cruelly pained, as it were with the cholick; she was now taken with the same pain, being much more raging than formerly, about night. An Apothecary being called, gave her two Clysters to no purpose, although they did purge her much. I being called in the morning, prescribed her a
Pill

Pill of five grains of *Laudanum*, and within an hour the pain quite ceased, and came no more.

At the same time Madam *de Varanda*, Mother of the foresaid Gentlewoman, was taken with a true Cholick pain, whereunto she was subject: a Clyster was given by an Apothecary, which not working, I was sent for, and found her crying out by reason of extremity of pain. I prescribed her a Clyster of a pound of an Emollient Decoction, an ounce of *Diaphenicon*, and four ounces of *Aqua Benedicta*, by which her pain was quite allayed, and the patient voided many flegmatick Excrements and much wind.

I my self being a month before vexed with the same pain, and finding little help from an Emollient, Carminative, and Laxative Clyster, was cured with such a Clyster as this, so that as soon as I had received it, all my pain went away; though I did not void the Clyster till two hours after.

The 113 Observation or History of Famous and Rare Cures, &c.

Pissing of Blood.

THe renowned M^r. *de Serres*, the Kings Councillor in the Court of Accounts and Subsidies, and Comptroller of the *Exchequer*, being fifty years old, of a Cholerick temper and Melancholick, having for many days together suffered grievous disturbances and sadness in his Mind, and by that means had lost a nights sleep; made bloody Urines, which appeared presently after he came from Horse-back; and at the same time he was troubled with sharpness of Urine. After which time, as oft as he journeyed on Horseback, he made bloody Urines in like manner, and with the like sharpness. Yea verily the foresaid sharpness of his Urine, was often wont to return upon him, although his Urines were no way infected with blood. Also with his Urine he voided gravel, which stuck to the sides of the Chamber-pot, which he had been accustomed to void for many years. The question thereof now is, upon what next and immediate cause this pissing of blood depends? And though pissing of blood in general is wont to arise from many causes, yet in this present case, two only will come under consideration; viz. A stone contained in the Kidneys, and by its roughness tearing the small veins, and drawing blood from them; or Humors sharp, Salt and Cholerick, opening the mouths of the foresaid Veins. Two things especially do seem to declare that it is the former cause, viz. Those sands which the Patient has been accustomed for many years to void with his Urine, which any one may judge to spring from some stone lurking in the body: and that some periodical Excretion of blood, happening then only when the patient uses immoderate exercise, and vehemently shakes his Kidneys with riding, whereby the stone comes to beat upon the substance of the Kidney and its small veins. Howbeit these two signs are not sufficient to demonstrate a stone in his Kidney. For the principal signs, and those that perpetually accompany or go before the same, are wholly wanting. The chief of which is a pain in the Loyns, which cannot be absent, if there be a stone, but must of necessity afflict the patient, and return by fits; and it is either gravative and pressing as a weight, when the stone sticks in the substance of the Kidney; or it is pricking and cutting, if it be contained in the Membranous Cavity of the Kidney. Add hereunto that this worthy Gentleman was never in his whole life tormented with Nephritick pains; nor ever voided any stone; whereas nevertheless it can hardly happen, that a disposition to breed stones, which for the most part is native and Hereditary, should lie idle fifty years together, and break first into act in that rage, without giving any signs or tokens of it self all the time foregoing; when as the chief conjecture that pissing of blood comes from the stone, uses to be taken from this consideration, viz. That the Patients had formerly voided stones. Add hereunto that the parents of this Patient were never observed to be troubled with the stone, which is of no small moment in this case. Finally, all other signs that demonstrate a stone in the Kidney, are here wanting, as nummedness of the thigh on the same side, retraction of the Testicles, stomach-sickness and vomiting gross meats, used long time before, and such like.

The two signs propounded to prove that there should be a stone, are thus confuted. Such gravel as truly shews a stone lurking in the body, does settle to the bottom of the pot, and if you rub them between your fingers, they will hardly go to powder. But if the sands stick to

the side of the Chamber pot, and are easily rubbed into a powder by the fingers (such as is the gravel voided by our patients) they can never be signs of the stone. For such gravel is not bred in the reins or bladder, but in the Veins and Liver, by adustions of the Humors, whose thicker and more Tartarous parts do resemble gravel, and are separated with the serous Humor contained in the Veins, and are thrust out into the Kidneys and bladder. Which having been observed by few, many are counted to have the stone, that were never subject thereto. And daily experience teacheth us, that many void such kind of gravel from their Child-hood, all their life long, who nevertheless were never troubled with the stone, and who had little reason to fear the same.

The Periodical voiding of blood happening then only when the patient does vehemently exercise himself with riding, though it may possibly come from a stone in the Kidney; yet there is no question but it may also proceed from heat stirred up in the Kidneys and the whole mass of blood, without any presence of the stone. For Cholerick and sharp humors, or such as are of the Nature of salt Flegm, being agitated by motion and heat, are sent unto the Kidneys, being mingled with the Serosities of the blood, and opening the small Veins of the Kidneys, they cause a flux of blood. And I confidently aver, that this is the Cause of our present Patient, seeing he is of a Cholerick constitution, and his blood attained adustion by the passions of mind and watchings aforesaid. Also the Acrimony of those Humors which passed through his Kidneys, appeared from the ardor of his Urine which often troubled him, when he made no bloody Urine.

That this opinion of mine is agreeable to the judgment of most learned men, is easie to shew by infinite examples. It may suffice to reckon up some of them. *Hollerius*, a man exercised as much as any in the Practice of Physick, in his 52. Chapter of internal Diseases, says, That some persons void blood by way of Urine, as others do by their nose, the Hemorrhoid Veins, or by Vomit. And experience shews that this kind of voidance of blood does often happen in such as are thereunto disposed, when their bodies are heated by vehement exercise. Wherefore pissing of blood may happen, and return by fits, when mens bodies are heated with vehement exercise. Which the same Author does more plainly evidence in his comment upon the 78. Aphorism of the fourth Section. There are (quoth he) some, who if they ride hard, or exercise themselves immoderately, their Kidneys are so heated, that they piss blood. The most learned *Montanus*, in his 283. Counsel, propounds the case of a certain Hungarian Bishop, so like this present case of ours, that I think fit to insert the same word for word. I conceived (quoth he) That this most reverend Bishop did therefore make bloody and troubled Urine, because a dilatation is made both in the Cavities of his Kidneys, and in his Urinary Vessels, by reason of extream heat raised in his back, by reason of violent motion, caused by the shaking of his coach passing over rough ways, and by reason of great heat following, while he walked up hill in a Fur red Coat when the Sun shone extream hot. By all which means so great an heat was raised in the parts about his Kidneys, that by reason of too much dilatation, he voided bloody Urine. Whence it is, that still as often as he is wearied, and exercises his body, he falls into the same Symptome, viz. Of Turbid and bloody Urine. For the dilatation is caused by motion, which ceases upon rest. Now the burning heat when he voids his water, and also the pain about his Fundament, proceed from the same cause, viz. From the said dreggy urine, which has in it sharp and biting parts either of Choller, adust humors, or salt flegm, or all together. Now the pain which he feels about his Fundament, is in the muscles of the Neck of his Bladder, which Neck borders upon those parts, and there is good reason that the pain should chiefly be felt in that part. So far *Montanus*. From whence it also appears, that the suspicion of a stone in his bladder, which our patient imagines to himself, because of the ardency of his Urine and the vexation of his Fundament, is vain; seeing those Symptoms may proceed from the same Causes which we have shewed to be the original of his bloody Urine. *Horstius*, in the 39. Observation of his 4. Book, *A Boy* (quoth he) eight years old, the Son of *Johannes Stuppis* the magnificent Chancellor, of a lean habit of body, has no stomach to meat, is thirsty, and voids bloody urine, without any pain in his Loyns, nor does he feel any trouble in the voidance thereof. Although bloody urine often happens, as is manifest in the stone of the Kidneys, in the ulceration of them and neighbouring parts, and such like diseases; yet this is a rare case, because this pissing of blood is without pain, whence may be collected, that this bloody excretion is not caused by a stone cutting the Kidneys, nor by

by an exulceration. It remains therefore, that the Cause of the disease must be the acrimony of Cholerick blood and the weakness of his Kidneys. So far *Hollerius*. Which examples I was willing in this place to set down more exactly, that the mind of our worthy patient might be wholly freed from fear of a stone bred in his kidneys or bladder, with which fear he has been long tormented by reason of the opinion of his other Physitian.

As for that concerns the Cure, it must aim at two things, viz. to temper the acrimony of the Humor, and to strengthen the Kidneys, that they may not so easily receive sharp humors flowing in from other parts. This may be effected by a cooling and thickening diet, which the patient has for some time begun to use, and wherein he must persevere a long time, using especially Lettuce, Plantane and Purslain in his broths, as also meats made of Barly, Oates, Rice, and such like; also for his drink, water wherein Iron has been quenched, and red wine somewhat harsh; ever more abstain from vehement motions of body and mind.

And although the renowned patient is not very full of blood, yet I judge it profitable for him to bleed six or seven ounces from his Arm, that the hot distemper of the whole Mass of Humors may the better be corrected: Yea verily, and if the disease should last long, it seems good to derive the humors to the lower parts, by opening a vein in his ankle or the Hemorrhoid veins.

After which a gentle purgation will be very convenient, which must be repeated at certain times, that the humors having recourse to his Reins, may be voided forth by stool; The Composition whereof, may be after this manner.

Take Leaves of Lettuce, Purslain, Plantane, and the tops of Mallows, of each half an handful, Tamarinds half an ounce; Yellow Myrobalans one dram; boyl them to six ounces. In the strained Liquor dissolve one ounce of Cassia new drawn. Strain it again, and dissolve therein one dram and an half of Rhubarb infused in Lettuce-water with yellow Sanders, Manna and Syrrup of Roses of each one ounce, mix them and make all into a potion.

After the first purgation, Juleps, Apozems, Broths, or Emulsions, respecting the foresaid Indications, may be accommodated, so as the Patient can best away with. Which being used for some time, sheeps milk or goats milk will be best for him. Which is exceedingly commended by *Hypocrates*, *Avicin*, and later Physitians; and *Forests* brags that therewith alone he had often cured pissing of blood. Now they add to every dose a dram of Bole Armenick, which as it is fit for a violent pissing of blood, so I conceive it is seldom to be used in this lighter disease.

And because the patient is of a dry and lean habit of body, and of an hot and dry constitution, before and after he uses the milk, I conceive a bath of lukewarm water is very good for him, which he must use all the Summer long, in form of a bath to sit in.

After his use of the Milk, let him use the waters of Meyne.

In the intermediate times, if sharpness of urine do sometimes trouble him, Waters of Marsh-mallow flowers and Roses, with conserve of Mallow or Marsh-mallow flowers or Emulsions, and other things aforesaid, may be used,

And finally, to seal up the Cure, a strengthening Opiate, moderately astringent and cooling, may be used. Nor will it be unprofitable, if the disease continue, to make an Issue in his leg, to draw away by little and little those sharp humors, which flow into the Kidneys and urinal passages.

All the time of the Cure, Topicks applied to his Reins will be very useful, and they must be cooling and astringent.

Take Unguentum Comitissæ, and Refrigerans Galeni, of each two ounces: wash them well with Vinegar and water mingled together; and anoint the Loyns therewith frequently.

Also a plate of Lead with many holes bored in it, may be worn a long time upon his Kidneys.

The 114 Observation or History of Famous and Rare Cures, &c.

A Caruncle in the Yard.

These following Remedies were transcribed in the Chamber of Accounts at *Montpelier*, wherewith *Geofrey Giannatus* cured *Charles* the ninth of that name King of *France*, in the year

year 1584. and had two thousand Crowns for his Reward.

In the first place, Take *Cassia* new drawn half an ounce, juyce of *Liquoris* one dram: *Electuary* of the juyce of *Roses* two drams, water of *Hops* four ounces: mix them into a potion, to be taken in the morning. Afterwards for ten days together, let him drink eight ounces of this following decoction lukewarm.

Take *Roots* of *Liquoris* sliced, of *Marsh-mallows*, *Sebestens*, *Raisins*, each one handful; *Seeds* of *Mallows*, *Marsh-mallows*, *Smallage*, *Parsley*, of each half a dram; *Fountain water* two pints, boyl them to the half. Of which let him take eight ounces for ten days, having first taken the potion or a *Bolus* of *Cassia*.

How to make the first Oyntment.

Take *Oyl* of *Roses* one pound. *Cerus* of *Venice* four ounces: *Camphire* half an ounce. Tutty prepared with *Rose-water* half an ounce. *Litharge* of *Gold* prepared three ounces: *Antimony* excellently powdered one ounce and half, *Opium*, *Olibanum*, *Mastich*, *Aloes Hepatica*, of each two scruples: mix them all and keep them in a *Leaden box*.

How to make the second Oyntment for Consolidation.

Take of *Galens Oyntment* of *Roses* new made, and washed in *Rose-water*, *Unguentum Album*, *Camphoratum* of *Rhasis*, of each one ounce: *Pomatum* made without the powders half an ounce: mix them together and keep them in a *Leaden box* for use.

How the Oyntment is to be applied.

Take a very small candle of white wax covered with a very fine cloath. And to find the place where the *Counsel* is. Take a *Candle* thicker than the former, smeared with *Oyl* of sweet *Almonds*, and put into his *Yard*. And if you feel a stoppage, that you cannot thrust it further; mark the place in the *Candle* and measure the length of that part of the candle which went in; then wrap the *Candle* in a piece of thin *Linnen*, and anoint it at the end with the *Oyntment*, and then put it into the *Yard*, till it reach the bit of flesh which stops the passage thereof. And if you find two *Carnosities*; then you must so order your first *Oyntment*, as that it may touch them both, continuing the same for fifteen, or eighteen, or twenty days, according to the greatness of the malady, and according as the *Carnosity* shall be found to open and turn to quittor. And when you perceive his urine to come freely and easily away, with little quittor therein, then you must take away the first gray *Oyntment* from the *Candle*; and anoint the whole *Candle* with the second *Oyntment*, continuing the same eight or ten days, till there come no quittor out with the *Candle*, nor no more pain is perceived in making water, at which time you must abstain from the use of Remedies.

The 115 Observation or History of Famous and Rare Cures, &c.

Nepbritick Pains.

THe 18 of *April*, 1636. the widow of *Msr. Dortis*, was tormented with a most vehement *Nephrick* pain, which reached all along from her left *Kidney*, according to the course of the *Uretor*, as far as to her share, with sharpness of *Urine* and frequent provocations to make water. She received no help from *Clysters* with *Aqua benedicta*, nor with *Turpentine*, nor with *Laudanum*, nor from mighty vomiting which came of its own accord, nor from baths to sit in; nor from *Laudanum* taken inwardly, her cruel pain continuing two days together. At last a vein in her *Ankle* was opened, and presently being let blood, her extream pain ceased, only a dull pain remained.

The 116 Observation or History of Famous and Rare Cures, &c.

Worms.

ON the 8 day of June 1636 a Damsel three years old, the daughter of one Robert a Baker, was sick of a most acute Feaver, with great Anxiety and weakness. Being called to her about the evening, I judged she was troubled with the worms, and prescribed her a little potion of half a dram of *Hiera* and half an ounce of Syrrup of Roses, with Purslain water, which purged her in the night, and thereby she was much eased; the day following, I prescribed these following Juleps.

The Leaves of Sorrel, Purslain, and Endive, of each one handful. Tops of Hypericon and Scordium of each one pugil. Boyl them in a pint of water. In the strained liquor dissolve three ounces of Syrrup of Lemmons. Make all into a julep. Let her take three ounces morning and noon, and night. Within two days she was perfectly cured.

Three days after the daughter of Msr. Beuf a Merchant, being six years old, was troubled with the like disease very grievously, I prescribed her the same Remedies, with the same success; but she had one dram of *Hiera*, and one ounce of Syrrup of Roses in her potion.

The 117 Observation or History of Famous and Rare Cures, &c.

A Stretching pain of the Belly.

ON the 15 of June 1636 Peter Blanc, a Citizen of Montpelier, had been troubled with an old loofness by which he became exceeding weak and lean. At last the 15 of June 1636. he perceived a huge rumbling in his belly, after which followed vomiting, and then he was exceedingly troubled with a painful stretching in his belly and a Feaver. He voided nothing at all either by vomit or stool, and he returned his Clysters, as they came, without any mixture of excrements. By order of an unskilful Chyrurgeon he took a purging Medicament, which brought nothing away, but his stretching and pain were thereby much encreased. I being called on the fifth day, found the man very weak, with the face of a dying man, as *Hypocrates* describes it, and his hands and feet cold, the tokens of death at hand. I was much troubled in my mind to know what disease this was, and could not imagine that it was any other than a mighty Inflammation, which with its extream swelling did so press the Guts, and so hinder the passage of the excrements. The Body being opened, the thick Guts were found livid, half corrupted, and one of them bored through; and in his belly many most stinking humors, by which it was manifest, that the excrementitious humors which had been used for a long time to flow into the Guts, & to cause a Loofness, did at last stay so long by reason of the weakness of the expulsive faculty, as to corrupt the Guts, and at last by their weight to open that part in which the said humors did abide, it being more putrified, and so to rush violently into the belly. And that Consequently his meats, and part of his Clysters, were passed through that hole, into the Cavity of his Belly.

The 118 Observation or History of famous and Rare Cures, &c.

A Malignant Feaver.

ON the 4 of July 1636. Peter Stelle, Consul of the town of Peroltz, being forty years of Age, fell into the disease termed *Cholera*, which was stopped in the space of twenty four hours by convenient Remedies. After which followed upon the third day of his illness a large bleeding at the nose, by which he was very much weakened. He was troubled with a mighty thirst

thirst at the beginning, and with unquietness, and a burning heat in his Midriff. Being called to him, I found his pulse small and very frequent, with an Hypocratick face, and afterwards viewing the habit of his body, I found it sprinkled with large black and blew spots, whence the extraordinary malignity of the Disease was apparent, which was the cause of so great Symptomes. Besides ordinary remedies, and cordial juleps with *Sal Prunella* to be given him thrice a day, I prescribed him this powder.

Take Sal Prunellæ half an ounce: Camphire half a dram. Make them into a powder. Divide it into four parts, and let him take one every third hour. He took this powder at night, and was much better in the morning. I ordered him to take the powder again with other remedies, and the same day he was freed from the present danger of death, and in a few days after was perfectly recovered.

If thou wouldst fright away all diseases from thy self and friends, then be sure thou beest a diligent understanding Reader of the Guide to Physick and Chyrurgery, *Riverius* Practice of Physick, and the Idea of Physick: All of the last Editions.

The 119 Observation or History of Famous and Rare Cures, &c.

The disease Cholera, proceeding from over-violent purgation.

A Sword-smith at the sign of the Lillie, being purged by a Barber with a certain strong powder in the extremity of hot weather, and he himself being of a very cholerick constitution, the night following he was violently purged, voiding cholerick and watry excrements up and down, with pain in his Stomach, extream thirst, and exceeding weakness the day after. I being sent for in the morning, did give him six grains of *Laudanum*, and within a quarter of an hour all the symptomes ceased. Nevertheless, strengthening bags steeped in red wine were applied to his stomach, and the same day he was perfectly cured.

The 120 Observation or History of Famous and Rare Cures, &c.

A Stubborn Loosness.

ON the 8 of September 1636. Msr. *Peter Hucher*, the Son of the renowned *John Hucher*, in times past Chancellor of our University, after a long Tertian Ague, was taken with so vehement a Loosness, that within three days he was extreamly weakned, and in danger of his Life. I being sent for, prescribed him in the first place one dram of Rhubarb in powder, with which he was much worse. The day following when he went to rest, I gave him a Bolus of Mastich and *Terra Sigillata* of each half a dram, *Laudanum* four grains. His loosness was stopped; but yet he slept not: the days following he went to stool only twice or thrice, & and in a few days after was perfectly well. At the same time Msr. *Grasset*, President of the Court of Accounts; after a long continual Feaver joyned with Ague fits, was taken with a most troublesome loosness, with which he was extreamly weakned; I visited him with another elder Physitian; and together we gave him in the first place divers strengtheners, and after that astringents, all in vain. The Ancient Physitian would never agree to give him *Laudanum*, and his loosness had continued twenty days, being always alike violent. Also I often propounded Tincture of Corals, which by strengthening the Liver does stop fluxes, also it potently cools, which was much to be wished in the patient, being of a Cholerick Complexion, but it was neglected for divers days together. At last, I daily urging the preparation and administration thereof, we gave him two ounces thereof, twice a day, for three days together; wherewith his loosness was manifestly abated every day, and his excrements appeared digested, so that in a few days he was thereby perfectly cured.

Note, That he had before twice taken in broth, Rhubarb twice infused in Cichory water, and dried again, which made him worse than before.

The 121 Observation or History of Famous and Rare Cures, &c.

Head-ach by being in the Sun.

THe 8 of *October*, 1636. M^r. *William Dortoman*, a renowned Advocate, being in the town, exposed himself to the Sun about noon, going on foot to another town a good distance off, whereupon he was taken with light fits of a double Tertian, which came about the evening, and in his fit he was troubled with an extream Head-ach, which the first three days went away with the Ague fit when it was morning. Mean while he was twice let blood, and had one purge given him. Which notwithstanding his Head-ach and Ague continued, and after the fourth fit it returned into a continual Feaver: For it cruelly tormented him as well in the mornings as at other times, nor did the Feaver ever leave him. Seeing therefore it was manifest that the Head-ach proceeded from his being in the Sun, it was feared there might be some inflammation in his brain, for remedies had been applied to his forehead and did no good. To remove therefore this grievous symptom, I caused seven ounces of blood to be taken from his forehead vein, whereby his Head-ach was presently much abated, and the following fit returned much lighter, with little Head-ach. And the next day in the morning he felt no pain at all.

The 122 Observation or History of Famous and Rare Cures, &c.

An hectick and a putrid feaver together.

THe 8 of *October*, 1636. the Daughter of M^r. *de Serres* Comptroller in the Court of Accounts, fourteen years of age, about the end of Summer was taken with a Tertian Ague, which after four fits went away of it self, and sometime after returned again; and the fits again ceasing, a small Feaver held her, with obstructions in her Belly, whereby her courses were stopped; in which condition she continued three months without taking any thing, being in the Country. In the beginning of *October*, I being sent for, found her troubled with a lingring feaver, extreamly lean, and having a very eager burning heat to feel to, which grew worse at night; yet she did not perceive her self to be feaverish, and though in the night she seemed to be burning hot, yet she was not thirsty, which made me conjecture her Feaver did turn to an Hectick, and the rather because she grew hotter after her meales, and all along the Artery of her Arm, the heat was perceived to be more intense, which the very by-standers observed; and some Oily matter did swim upon her Urines. Seeing therefore it was apparent that there was a putrid feaver linked with a beginning Hectick; I first set my self to remove the putrid feaver, and presently caused her to bleed seven ounces from the Basilica vein of her right Arm. The day following she was purged with a gentle Medicament. The third day she took a cooling and opening julep. The fourth day she was again let blood, for her blood seemed very corrupt and adust. Her juleps were continued; and an Emollient and opening fomentation was applied to the Region of her spleen, also a Liniment of the same faculty. The fifth day an emollient and purgative Clyster was given her, by which she was much purged, and her feaver much exasperated; her pulse was small and frequent, her heat sharp and biting; all which continued the whole night and half the day following. The two next days, she was much better, her feaver was remiss, and the mighty exasperations thereof were very gentle; the swelling of her spleen and the resistency thereof to the touch, were less; also the pain which she was wont to feel, when she was touched and pressed never so little upon her spleen, was well near quite gone. Mean while the fomentations, Liniments, and Aperitive broths were continued. When those two days were over, she was purged by a gentle Medicament, which brought away much flegmatick matter by vomit, and wrought only twice downwards; the same day her feaver appeared yet more remiss. Afterwards her opening broths, fomentations and Liniments were continued; also in every third broth half an ounce of Senna was infused. So by little and little she regained her former Health.

The 123 Observation or History of Famous and Rare Cures, &c.

Fatty substances voided by stool.

THe little Daughter of Msr. *de Rochemore*, named *Lucretia*, being three years old, had a continual Feaver proceeding from worms. She voided by stool very crude excrements, and resembling plaister, amongst which are found sometimes certain little green round things like large peale, which being laid upon a trencher and held near the fire, did melt like butter. Having never seen such like matter before, nor never read thereof in any Author, I was very doubtful, whence it should have its original. An ancient and experienced Apothecary said that he had observed the like excretions in his own Daughter. At last, seeing this matter could not be thought to proceed from the fat or Oily moisture of her body, (for she had no hectic nor melting Feaver) and her excrements appeared very undigested; I conjectured, that this matter proceeded from the fat eaten with her meat, which she had eaten too plentifully; or from broths not well skimmed from the fat; which fat did hurt digestion by relaxing the stomach, and was therein ill digested; especially seeing other meats eaten in too great quantity, would remain undigested. This fatness therefore, retained long in the stomach or Guts, received its thickness and green colour, from the heat of her Body.

On the 12 of *October*, 1636. this Conjecture of mine was confirmed by another Case of a Man troubled with Hypochondriacal Melancholy, who frequently thought that he had poison given him, which to resist he frequently took great quantities of Oyl. Now he voided such like round pellets, which he melted and kept in a Glass. Which matter contained in the Glass was like the dregs of Oyl, and void of all smell. Whence I conjecture that the Oyl taken in so great quantity, could not at all be digested by Nature, that the thicker parts were by long heat more thickened and wrought into such pellets, which being melted, did resemble dregs of Oyl.

The 124 Observation or History of Famous and Rare Cures, &c.

A Quinzie.

THe 14 of *October*, 1636. a Taylor forty years of age was troubled with the quinzie, which hindered his swallowing, and he was let blood, Clysters were given him, and a Vesicatory applied by an Apothecary; these things doing no good, they sent for me. And observing that he was hardly able with all his might to swallow a little broth taken in a spoon, and that he could not therefore drink a purging potion. I prescribed him two ounces of *Aqua benedicta*, which purged him frequently by vomit and stool, and the same day he was cured of his quinzie.

The way to deliver from death is to be well studied in these Books, viz. the Guide to Physick and Chyrurgery, the Practice of Physick, and the Idea of Physick, of the last Editions.

The 125 Observation or History of Famous and Rare Cures, &c.

Sciatica pain.

ON the 8 of *January*, 1637. Msr. *Grefveille*, Counsellor in the supream Court of Accounts, was vexed with a pain in his huckle bone, in the bitterest of the winter: having taken Clysters, and a purging Medicine, and a Plaister being applied to that part pained, all did no good; at last, his ankle vein on the same side was opened, and within a few hours the pain abated, and afterwards went quite away; so that the second day after his blood-letting, he went about his wonted affairs, being able to go about the City on foot.

The

The 126 Observation or History of Famous and Rare Cures, &c.

A Sleepy Disease, Cured with a Sleepy Remedy.

THE 22 of October, 1636. A certain Virgin of *Melgeres*, twenty years old, named *Liquiore*, was troubled with a double Tertian, about the beginning of Autumn, for twelve days together: and was freed therefrom after the use of some Remedies. She fell again into the fits, which at first seized her after their wonted manner; but afterwards certain new Symptoms happened with the fit, viz. extream sleep, redness of Face, sticking out of the Eyes, a pricking pain of her left side, and extream difficulty in swallowing; her meat going to the bottom of her gullet, and to the Orifice of her Stomach, was suddenly cast up again; and if any thing passed in, it was with great trouble. I suspected that a fit of the Mother was combined with an Ague, and appointed her remedies against the Mother, which notwithstanding, the disease continued. Some days after, these Symptoms returned without a Fever, which exceedingly confirmed my opinion; also in that the pain in her right side, did sometimes go over into the left; and sometimes she felt pricking pains in several parts of her belly, her stomach was pained and sick; and sometimes she seemed to be strangled: I observed three things peculiar in this disease. The first was difficulty in swallowing, which is not common in fits of the Mother, yet that was not perpetual, but came by fits, for it hindered her from swallowing meat or drink for many hours, and then it went quite away, so that she swallowed even pills in my presence, without any trouble. The second was, that these fits of the Mother came every day in the evening, as constantly as Ague-fits. The third, that when her pain of the stomach and other Symptoms were most troublesome, strengthening and heating bags did encrease her Disease, and brought the Choaking fit upon her. Which being told me, and I being present at one of her fits, the Patient complaining of an exceeding pain at her stomach, I caused a Crust of bread toasted, and moistened in hot wine, and sprinkled with the powder of Cloves and Nutmegs, to be applied to her Stomach; which very much encreased her suffocation, so that we were fain to take it away. Then for trial sake I caused a cloath four times doubled, to be wet in Vinegar and water mingled, and to be applied cold to her stomach, which being laid on, the suffocation and pain of her stomach presently ceased. Which experiment was seconded by cold water taken at the same time, some drops whereof she swallowed with much ado, felt their coldness in her stomach, and was presently relieved. Afterwards, I caused the Crust of bread to be laid on again hot, which then she patiently endured. The reason whereof I conceive to be, that the vapours being raised and troubling her stomach, were by hot things put more into motion: but after they had been laid with cold things, the stomach being free from the said Vapours could easily endure hot medicaments. I conceived by the Fever foregoing, some seed retained was corrupted, which did produce such Symptoms. Peradventure also the reliicks of menstrual blood putrified might concur to the production of these Symptoms. But the said putrified matter had its motions at set times, even as we see the matter of inward Imposthumes is also often moved at set times, and represents fits as it were of a Tertian Ague.

Now before she was taken with her fit, because she could then swallow very well, she took by my advice four little pills made of four grains of *Laudanum*, and a little after the foresaid fit came; but after two hours the *Laudanum* beginning to work, all Symptoms abated, and she was well all that night, whereas the forgoing nights she was extreamly tormented. The day after in the morning she took an Hysterical and purging Apozeme, and continued the use thereof three days together, wherewith the Cure was perfected. I doubted much, when I gave her the *Laudanum*, because she was wont to fall into a deep sleep in her fits, which might be encreased by the use of the *Laudanum*. But at last I resolved with my self, that the said deep sleep did arise from vapors ascending plentifully from the womb into the Head; by prohibiting the ascent whereof, the sleepy fit might be hindered. And the event proved accordingly. Whence this true Conclusion is gathered, which seems at first sight a great Paradox, viz. That a sleepy disease may be stopped by the use of *Laudanum*.

The 127 Observation or History of Famous and Rare Cures, &c.

Gripings in Children.

ON the 12 of *December* 1636, my little Son *Charles*, being four months old, was taken with a most cruel Cholick pain, which made him cry and roar continually. I gave him half a scruple of powder *Diamoscu Dulcis* in milk, whereupon his pain ceased for a quarter of an hour, and then it returned as fierce as before. A Clyster was given him of a Decoction of Annis and Chamomel, with the yelk of an Egg and Sugar, and therewith the pain was wholly taken away. Eight days after, he was taken with the same pain; he took the same powder and the same Clyster, but all in vain. At last I caused a fomentation to be applied to his whole belly of Annis and Chamomel boyled in *Aqua Vita*, at the first Application whereof the pain went quite away. The day following the pain returned again, which being somewhat mitigated by the foresaid remedies, the day following in the morning, I gave him an ounce of Syrrup of *Roses*. Which when he had taken, he vomited flegm like the white of an Egg, but voided little or nothing by stool, and his gripings returned. He took the Syrrup again with infusion of one dram of *Senna*, which also did little good. At last I gave him ten grains of the Earl of *Warwicks* powder (or *Pulvis Cornachini*) in Milk, with which being gently and largely purged, he was perfectly freed from this Disease.

The 128 Observation or History of Famous and Rare Cures, &c.

A fluxion upon the Lungs in an Infant.

THE 19 of *January*, 1637. My said young Son *Charles*, a month after his former disease, fell into a most cruel Catarrh, which did flow down into his brest, which caused him frequently to Cough, and to rattle in his pipes as he breathed. I gave him a purgation of Syrrup of *Roses*, with an Infusion of *Senna*, whereby he vomited flegm, but purged little downwards. Pectoral Syrrups were given him; his brest was anointed. His disease continuing, the same purgation was given him to small purpose. At last I gave him ten grains of the Earls powder in milk, wherewith he was gently purged, and was well the same day.

The 129 Observation or History of Famous and Rare Cures, &c.

Supression of Urine.

ON the 27 of *January* 1637. Msr. *de Labaie*, an Auditor in the Court of Accounts, was two days troubled with a total suppression of Urine, with a pain in his left Kidney, and of the Uretor on the same side. He had taken Clysters by order of an other Physitian, and fomentations had been applied to the Region of his share. I was called to consult with the said Physitian; we ordered his Hemorrhoid Veins to be opened (which did then swell) by Application of Leeches, an Emollient Clyster was again given him, with half the quantity of Oyls, a Fomentation was applied to his Kidney and Uretor, afterwards they were anointed with Oyls of Scorpions and Sweet Almonds, also a Cataplasme of the strainings of the Emollient Decoction, with Onions roasted in the Embers; and at the same time we gave him this Julep following.

Take Juyces of Pellitory of the Wall and Sea-fennel, of each one ounce and an half. Juycce of Lemons and Oyl of sweet Almonds, of each one ounce, Mix them, make all into a julep. Within an hour after he had taken this julep, he made water abundantly, and was freed, seven hours after we began our consultation, during which space the foresaid Remedies

dies were administred. To seal up the Cure, he took the day following a Bole of Cassia, Rhubarb, and Cream of Tartar.

The 130 Observation or History of Famous and Rare Cures, &c.

A Stubborn Gonorrhæa.

THe 6 of February, 1637. Msr. N. thirty years old, of a Cholerick and Sanguine constitution, having had a Gonorrhæa for two months, and the Chyrurgeons had tried many remedies in vain, he did commit himself to my care. In the first place I ordered him to be let blood in his Ankle, and the day after one scruple of *Mercurius Dulcis*, with half a scruple of *Diagredium* in broth; after that a Bolus of three drams of Turpentine, and one dram of Rhubarb, for six days together, which did him no good. The purging powder is repeated, and after that he used the following water for twelve days, which presently did him good, and he was perfectly cured; it did so powerfully cleanse the internal Ulcer, that his Urine being poured upon the ground did infect the same with a white colour, like dissolved Chalk.

Take dried Mint three ounces, Seeds of Lettuce, Rue, and Agnus, of each two ounces and an half. Florentine Orris Roots two ounces; Dittamus of Creete ten drams; Sugar two pound; Powder them all, add thereunto five ounces of clear Turpentine, and thirty ounces of White-Wine, and distil them in Balneo Mariæ. Let the Patient take two spoonfuls in the morning two hours before meat, and in the evening four spoonfuls after Supper.

If thou wouldest quell all Diseases, read and understand Riverius Practice, the Idea of Physick, The Guide to Physick and Chyrurgery, and the London Dispensatory, all of the last Edition.

The 131 Observation or History of Famous and Rare Cures, &c.

Of an Hysterical Epilepsie.

THe 17. of February, 1637. the Wife of Msr. *Palemarchus de Sumenes*, was vexed many years with sundry Hysterical Diseases, which did imitate the fits of the falling-sickness; she tried many remedies prescribed by many Physitians, but all in vain. At last by the advice of a woman, she took the flesh of a Wolf reduced to powder, and wore a piece of the said flesh salted always about her, after which she was perfectly freed from the foresaid Disease.

The 132 Observation or History of Famous and Rare Cures, &c.

Immoderate flux of the Courses.

ON the 6 of March 1637, among other Remedies prescribed for the Wife of Msr. *de Vitrac*, who was brought to death's door by an immoderate flux of her Courses, which happened after abortion, the following julep did wonderfully help her.

Take of the flower of Chamæleon, Spicknard, Dragons blood very finely powdered, of each one scruple; Plantane and Rose-water, of each one ounce and an half. Make a Julep, of which let her take two spoonfuls, twice in an hour.

Also extract of Coral with Plantane water, did her much good.

The 133 Observation or History of Famous and Rare Cures, &c.

A Cholerick Cholick.

THe 18 of *May* 1637. a certain Woman was tormented with cruel pricking pains of the Cholick all her belly over, well near. Another ancient Physitian had given her ordinary Remedies hot, wind expelling, and flegm purging, by which she found no ease. At last, I being called, by the kind of pain, its situation, the hot complexion of the woman, and her very red urines, I conjectured it was a Cholerick Cholick; and I prescribed her presently blood-letting, a cooling and Lenitive Clyster, and a cooling julep, wherewith her pain was very much abated, and seeing her blood appeared extream Cholerick and corrupt, she was again let blood the day following, whereupon her pain went quite away. And finally, the Cure was perfected by a Choler purging potion. I prescribed her at the first a bath to sit in; which she used not, because of the great abatement of her pain.

The 134 Observation or History of Famous and Rare Cures, &c.

A Malignant Feaver.

ON the 7 of *June* 1637. Msr. *Patris* a Councillor, being fifty five years old, was taken with a light coldness, and feaverish all night, continuing much after one and the same manner; the day after in the morning he was free from his Feaver, and in the evening he was Feaverish again, and after the same manner his Feaver continued intermitting until the seventh day, and then it was turned to a continual Feaver. Howbeit he was troubled with a frequent coldness of his Feet, and Knees, and sometimes of his Hands; his Urines were like those of an healthy person; howbeit all things grew every day worse and worse, so that it was easy to see, that it was a Malignant Feaver, and it was afterwards manifest by the spots which came out on the ninth day, also by his ravings, and the Convulsive motion of his hands with a certain profound sleepiness, and a looseness. The ordinary Cure, usual in such cases, was administered. But this is peculiarly observable, that he was let blood on the third day, and his blood appeared laudable. On the fifth day he was purged, while it was yet an Ague. On the seventh he had a looseness, which continuing till the eleventh, hindered any further blood-letting, and seeing on the twelfth day the flux seemed to be stopped, I doubted whether or no I should let him blood, seeing the other Evacuation had done no good, and the great weakness and danger wherein the Patient lay (so that his Kindred lamented for him as one at deaths dore) seemed to dissuade the same. Add hereunto, that for the two foregoing days, many Cupping-Glasses were applied with Scarrification, to supply the want of blood-letting. At last I conceived that it was best to let him bleed four or five ounces by way of trial, so that if he bore it well, more might be taken away afterward. Blood was taken away, black and corrupt, with the good bearance of the Patient; five hours after the like quantity was taken away, the Patient remaining as strong as before. In his cooling Juleps were mingled *Scordium* and *St. Johns-wort*: wherein *Sal Prunella* and spirit of *Vitriol* were dissolved. In all his Broths he took a scruple of *Bezoardicum Minerale*. On the same twelfth-day at night, he had a plentiful looseness, yet the Patient seemed to be better after it. Wine was given him to drink very well tempered with water. He did many times sneeze in the course of his disease, which made me hope he would do well, although many other Signs did portend his death. The thirteenth and fourteenth days his looseness continued with extream weakness, Clysters were given him of Milk wherewith his looseness was moderated. A Julep was given him of Orange-flower and Rose-water, with *Confectio Alkermes* and some drops of Cinnamon water, of which he took now and then a spoonful to strengthen him. His looseness being abated, his sleepiness abated on the fifteenth day, and his raving ceased. Yet he made little or no Urine. On the sixteenth

teenth day, he was a little better. His Tongue, before dry, appeared moist. After which by little and little he grew perfectly well.

The 135 Observation or History of Famous and Rare Cures, &c.

Of a Loosness.

ON the fifteenth of July 1637. Madam de Grosset being fourscore years old, but of an exceeding strong body, was taken with a loosness and Tenasmus, which made her go many times to stool every hour, with most grievous gripings. Her stools were various, sometimes yellow, sometimes Leek-green, and sometimes black. The Seminary of the disease was taken away by four purgations, repeated with some distance between, of Rhubarb, partly infused, partly in substance, with Syrrup of Roses. In the Intermediate times, cleansing, pain asswaging, and strengthening Clysters were giving her, with cooling and thickening juleps and Emulsions.

The 136 Observation or History of Famous and Rare Cures, &c.

Prognostick of a Dysentery.

IN the month of July 1637. the Daughter of Msr. Guilliminet, Secretary, of the Parliament of Languedoc, five years old, being troubled with a Dysentery, voided divers Excrements, yellow, green, and sometimes black. About the end of her disease, sundry spots appeared, like flea-bitings, in her Face and other parts, and one of her hands was swelled with a Flegmatick Tumor; which were certain presages of death:

At the same time the Reverend Father Guardane, Provost of a Covent of Franciscans, called Minorites, being troubled with a Dysentery, was taken with frequent Hiccuppings, which were forerunners of his death.

The 137 Observation or History of Famous and Rare Cures, &c.

A Dysentery.

IN August 1637. the Son of Msr. de Maussac, President of the Exchequer Court, being eight years old, had a bloody flux and voided much blood, with green and leek-coloured stools, and a continual Feaver. On the third day of his Disease, he took the infusion of a dram of Rhubarb, made in Plantane water with yellow Sanders, in which was dissolved a scruple of the powder of Rhubarb, and an ounce of Syrrup of Roses. He was very well purged, voided many Excrements without blood, and was in a manner free from his Feaver all that day. The day following he voided pure blood, with which were mingled certain drops as it were of Leek-coloured matter: his stools were frequent, with gripings in his belly and a Feaver, which continued to the eight day, though all ordinary Remedies were administered both internal and external, as also sundry Clysters. On the seventh day, extract of Corals were given him three times, a scruple at a time, with Plantane and Rosewater and Syrrup of Quinces, but in vain. At the beginning of the eight day, when both his Feaver and Flux grew worse and worse, and he voided pure blood, he was let blood about Noon to the quantity of five ounces. At night all things were as formerly. The next day in the morning, I gave him two grains of *Laudanum*, with extract of Coral, Plantane, and Rose-water, and Syrrup of Quinces: his loosness was wholly stopped for four hours, he slept quietly, waking between whiles. After four hours, he went to stool again, thrice in two hours, and voided meer blood as before, and vomited up his broth. Whereupon there was more appearance of danger, seeing other remedies had done him no good, nor *Laudanum* it self, which does always help in this Disease. He did sneeze
once

Once. His fourth stool after the *Laudanum*, voided store of Excrements without any blood. He vomited no more. Towards evening he went more frequently to stool, yet less than before he had taken the *Laudanum*, nor were they so bloody, but did partly consist of Dung. The night following, he slept pretty largely by fits, and his stools were seldomer. In the morning he took a Medicament of one dram of Rhubarb, one scruple of Citrine Myrobalans, red Sanders half a scruple, infused in a decoction of Plantane, Purslain and Tamarinds, dissolving in the strained liquor a scruple of powder of Rhubarb, and half an ounce of Syrrup of Roses: Which made him void plenty of dung and humors with very little blood, and small gripings; his Feaver was abated, and the night following he went seldomer to stool, and slept better. The following days his Loosness continued by fits, without any blood, gripings or Feaver. Yet he was afterwards vexed with a continual loosness, and a lingering Feaver for an whole month together, with a mighty appetite; he had stools in the night in his bed, and frequently in the day time, so that it seemed to incline to an Hectick Feaver. Finally, I gave him two scruples of Bole Armenick with broth two days together, and so his loosness was perfectly Cured.

The 138 Observation or History of Famous and Rare Cures, &c.

Cholick Pain.

THE 25 of September, 1637. The Wife of Msr. de Sorret the Kings Councillor in his Supream Court of Accounts and Subsidies, being with Child, in her ninth month was taken with a most grievous Cholick pain, which made her at the first vomit all that she took; but she voided nothing by stool. She had devoured much fruit, her pain was fixed near her short ribs on the right side, so that there was fear of her Liver being inflamed, because she had a feaver and was very thirsty. After many Clysters, Fomentations, and baths to sit in, she voided downwards liquid and crude Excrements. Howbeit her pain continued. At last there was given her a purging Medicament, of half an ounce of *Catholicum*, infusion in a decoction of Cichory and Maiden-hair, with a dram of Rhubarb also infused, and an ounce of Manna, and as much of Syrrup of Roses: She had seven stools, and her pain was much abated. The day after the pain continued, but more remiss, a Clyster was given her, wherewith she had five stools, and afterwards voided much Urine, whereupon she was perfectly Cured.

To deliver from the Disease before mentioned, and to preserve health, Read with care the Practice of Physick, The Idea of Physick, *Riolanus*, and the *London Dispensatory*, of the last Editions.

The 139 Observation or History of Famous and Rare Cures, &c.

Inflammation of the Testicles.

ON the 20 of September 1637. Msr. Texiar of Nismes, Doctor of the Canon and Civil Laws, by reason of Violent riding, fell into an Inflammation of his right Testicle, with a large Tumor. He was twice let blood in his Arm, once in his Ankle, and a purge was given him. The part was fomented with Rose-water, and a Cataplasm was laid on of Bean-meal boyled in Vinegar and water, a fourth part of Vinegar being mixed with three parts of water, which Cataplasm never failed me in this Disease. Howbeit, in this Patient the skin of his Cod was so tender, that the sharp Vinegar did fetch off the Skin, and he could no longer endure the Cataplasm. I caused the Cataplasm to be repeated; but to take away the Acrimony of the Vinegar, I caused it to be boyled with Litharge; and so the Cataplasm did operate excellently, and the Patient was cured of his swelling in the space of three days.

The 140 Observation or History of Famous and Rare Cures, &c.

Of an Heptaick flux.

THe 11 of *October*, 1637. The wife of *Peter Banete*, a Baker, after certain fits of a *Tertian Ague*, fell into a flux of the Liver, whereby all her stools became bloody. I being sent for, prescribed her presently two grains of *Laudanum*, with half a dram of Conserve of *Roses*, and within an hour her flux stopped; returning afterwards, she voided only humors and not blood, and was cured with other vulgar Remedies.

The 141 Observation or History of Famous and Rare Cures, &c.

Erycipelas.

MSr. *de Gont*, a Gentle man of *Montpelier*, twenty five years old, was often troubled with a red swelling in his Legs; he began to drink his wine much stronger than before, and with very little water in it; from which time he has never been troubled with his swelling, though it hath been four or five years since. I conceive the reason is this, that his expulsive faculty being strengthened by the Wine, the matter of the said Inflammation is expelled by stools, Urines, or insensible transpiration.

The 142 Observation or History of Famous and Rare Cures, &c.

Tertian Ague with Vomiting and Loosness in the fit.

THe 18 of *August*, 1638. Msr. *Durant*, a Proctor in the Court at *Montpelier*, fifty years of Age, had five fits of a *Tertian Ague*, from which he was delivered only by blood-letting. For fifteen days he was well, and did eat some ripe fruit. He fell into the same Ague again, and in the second fit was vexed with a most grievous vomiting and loosness, which made him void many Cholerick Excrements upwards and downwards, with extream unquietness and debilitation; so that his life was now in danger. I prescribed him the following Julep, with which presently all his Symptoms were stopped; he slept two hours, and his fit was terminated by sweat. And in a few days he was perfectly well.

Take Water of Lettuce, Roses and Plantane, of each one ounce; Syrrup of Quinces, one ounce; Confectio de Hyacintho, one dram; Laudanum Opiatum, two grains. Mix them into a Julep, and let him take it presently.

The 143 Observation or History of Famous and Rare Cures, &c.

Grievous sore Mouths in Children.

THe 4 of *September*, 1638. My Son *Stephen*, being four years old, and had a most sore fluxion upon his Tongue and Jawes, so that they were full of infinite Ulcers, and they whitish and very painful, with great Inflammation. He could take neither meat nor broth, nor suck milk. And he cryed day and night, could not sleep, was lean, almost consumed. Among remedies, Honey of Roses, with Spirit of Vitriol, did him no good. He had a large loosness with which he voided leek-coloured Choler. A Vesicatory did him much good. But his pains and cryings continued, and the Patient continually voided serous and sharp humors by his mouth, the heat and Inflammation drawing the humors more and more.

At

At last I gave him one grain of *Laudanum* with broth, and therewith his pain was asswaged, a short sleep caused, which continued afterward moderate, and came at his hours. After which he grew better, and the flux of humors running out of his mouth was wholly stopped. Howbeit the day following he had a purging medicament given him, which did him likewise much good.

The 144 Observation or History of Famous and Rare Cures, &c.

Of a Dysentery.

Ioan de Paravisol, eighteen years of age, was troubled with a most grievous Dysentery, with an acute Feaver. For seven days she was in the hands of another elder Physician, who did prescribe her nothing else but detergent Clysters and Rhubarb, whereby her Feaver was encreased, and her dysentery became worse. He being absent, I was sent for, and gave her first three grains of *Laudanum*, with which her flux was much abated that very night, and she slept three or four hours. In the morning I let her blood, and the blood came away exceeding hot. Then I gave her one scruple of extract of Coral, with Plantane water, twice in a day, but without any profit. For she had a most bitter night, both in respect of her Feaver, and of the flux which was bloody, and had been stopped some time by the use of *Laudanum*. The next day in the morning, I gave her *Laudanum* again, and the flux was stopped; at evening a vein was opened again. The Excretion of blood was in less quantity, but she voided leek-coloured choler very corrosive, her Feaver and thirst being very violent. For her thirst, I prescribed her Juleps of a decoction of Purslain and Plantane, with *Sal Prunella*, which did her much good; howbeit her disease continued still. At last there was given her in the morning, Rose-water with common Oyl; at noon a decoction of the Guts of a Weather boyled much away with the powder of *Aibes* berries. The Patient was thereby much holpen. And the day following those three remedies being again repeated, she attained her health.

The 145 Observation or History of Famous and Rare Cures, &c.

Of the Measles.

THe 28 of *Septem.* 1638. the Nurse of my Son *Stephen*, by name *Claudia*, was taken with the Measles, wherewith her whole body was covered, with an intense Feaver. Whereunto was added a most grievous symptom, viz. a thin fluxion falling upon her lungs, which caused her frequently to cough, and was in danger to choke her, with a mighty hoarseness. A Vescatory was applied to her neck, and two grains of *Laudanum* were given her, with conserve of Roses. Her fluxion was stopt all night. The day after it returned again, and *Laudanum* was given her again with like effect, whereupon in a few days she recovered, her hoarseness abiding a long time after.

The 146 Observation or History of Famous and Rare Cures, &c.

A Tertian Ague.

IN the year 1638, very long Tertian agues were rife in Autumn, from which many were delivered, by taking after frequent blood-lettings and purgations, one dram of Treacle with Plantane water for three days together. In such as I feared its heat most, I gave it after supper. But one took Treacle without my advice while his disease was yet crude with red Urines, and his Feaver was increased. Wherewith the experiment of *Galen* was confirmed which is recorded in his book *de Precog. ad Posthumum*, Chap. 2. and 3. touching *Eudemus* Peripatetick, to whom while his disease was yet crude, the Physicians of Rome gave Treacle, and his simple Quartan was by that means turned into a Triple. But with the same Treacle given by *Galen*, when the signs of concoction appeared, he was happily cured.

The 146 Observation or History of Famous and Rare Cures, &c.

An Inveterate Diarrhæa.

THE 15. of October, 1638. a Gentleman Thirty years of Age, came to *Montpelier* to take advice about a Loosness that had troubled him Eight years together, which made him go to stool five or six times in a day and night, voiding excrements partly cholerick & partly flegmatick. He fell into this sickness by bad Diet, which he was forced to use many years together, following the Camp. It did not much weaken him, yea rather he was ruddy of Countenance, especially about his Cheeks; I sent him to the Baths of *Baleruca*, the Water whereof he drank six dayes together, and his Loosness was quite stopped, so that for eight dayes after he had left taking the Water, he never rose in the Night; whereas before he was wont to rise twice or thrice every Night. I prescribed him many other usual Remedies to strengthen his Natural parts, which he said he would make use of in his own Country.

The 148 Observation or History of Famous and Rare Cures, &c.

A most stubborn Vomiting.

ON the 15th of October, 1638. Monsieur *Enguarran*, Canon of the Cathedral Church at *Montpelier*, of a Melancholick and Aduſt temperament, fell into a most stubborn Vomiting without any manifest cause, wherewith he voided with much straining, flegmatick, clammy and mucilaginous Excrements; also he belched up much Wind after he had taken any Broth. Many Medicaments were used by other Physitians in vain, for two moneths together. At first he took Pills of *Hiera* for many dayes together: afterwards he was purged with a Decoction of *Senna*, and an infusion of *Rhubarb*, and afterwards with *Apozemes*, in the use whereof he was not able to continue. Afterwards Milk was given him, because they suspected he had an Ulcer in his Stomach; also frequently he took Treacle for fear he might have been poysoned, and many Fomentations and Unguents were applied. I being called, found his *Hypochondria* very much distended, especially his left, his Pulse strong enough, though he was weak enough, in respect of his Animal faculties. I conceived the Humors flowed out of his *Hypochondria*, and that his Vomiting was a spice of the *Hypochondriacal* Disease. At Evening two grains of *Laudanum* were given him, and all Night he vomited not, but rested quietly. The day following he was let blood, which was hinted by his other Physitians, and six ounces of blood was taken away, which was very aduſt; he vomited twice or thrice that day, a Clyster was cast in about the Evening: also I prescribed an Emollient and opening Fomentation, to be applied to his *Hypochondria*, and a Liniment with the same Vertues. The third day he took this Powder:

Take *Rhubarb* one dram; *Myrobalans Citrine* one scruple; *Spodium* and *Mastich*, of each six grains: make them into a Powder, give it in the morning with Broth. He vomited up his Medicament, and would take no more. After a moneth he died, and his Body being opened, his Epiploon or Caul was found thick, red, schirrhous and contracted, so that it resembled the Liver at first sight, and was as thick as it; his Stomach was black and blew, thin at the bottom, and in the upper part schirrhous; his Guts black and blew. His Spleen was in good case. Melancholy Humors were heaped up in the Caul, and from thence flowed back into the Stomach.

The 149 Observation or History of Famous and Rare Cures, &c.

A long Loosness with an Ulcer of Intestinum Rectum.

ON the Second of November, 1638. Mr. Ludowick Messines being vexed two Moneths with a double Tertian, with a Loosness partly of dung, partly of Humors, and partly of Blood, whereby he had eight or ten stools in a day. At last he was freed from his Ague-fits, his Loosness abiding, whereby a pain was raised in his right or straight Gut, a little above his Fundament, alwayes vexing him, even when he went not to stool. Sometimes he voided laudable dung, sometimes a reddish Matter, resembling the colour of the Liver, and sometimes mixed with *Quittor*. I conjectured by reason of his long Loosness, that there was an Ulcer about the internal *Hemorrhoids*. He did loath in a manner all Medicaments. And therefore I advised him to use the Bath Waters for three dayes together. The first day, his Appetite, long since dejected, was presently restored, and consequently the pain of his Fundament quite vanished, an indifferent Loosness remaining, whereby he had two stools in the Night, and as many in the Day, and his Excrements were soft, but well digested; whereupon he grew every day better, so that after fifteen dayes taking the Waters again he was perfectly Cured. Yet he received a Fumigation from a Decoction of *Tapfus Barbatus* through a groaning Chair, with which his Loosness was mightily stopped, though he used it but twice. The Effect thereof was sensible.

The 150 Observation or History of Famous and Rare Cures, &c.

Artbritick Pains.

ON the Twelfth of November, 1638. Monsieur Monret of Montpelier was vexed with Arthritick Pains, which afflicted divers parts, and rambled through the Joynts. He had been troubled a whole moneth with this Disease, and was many times purged, Blood-letting being also not omitted. At last he used this following Diet-Drink.

Take *Sarsaparilla* one Ounce; shavings of *Guajacum* two Drams; Water as much as shall suffice. Let them boyl till a third part be consumed; strain out the Liquor, adding thereto a little *Cinnamon*.

After he had used this Diet-Drink eight dayes together, he began to void with his Urines a flegmatick Matter, which stuck to the bottom of the Chamber-Pot, and at the same time he found great ease of his pains; untill he was perfectly cured, that flegmatick Matter issuing forth for many dayes together.

The 151 Observation or History of Famous and Rare Cures, &c.

Wandering Pains.

ON the 13. of Novemb. 1638. Mr. Gaillard was suddenly taken with most grievous wandering Pains, tormenting sometimes his Thighes, otherwhiles his Knees, Legs or Feet, or Loins. Another Physitian was called, and took away five Forrengers of blood within an hours space, and his pain not abating, he gives him a Pill of *Laudanum*, whereby the Pains were pacified that Night, and till next day at Noon. In the Afternoon the Pains returned as bad as ever. I being called, the other Physitian being absent, prescribed him a *Bolus* of half an ounce of *Diaprunum Solutivum*, and one scruple of *Jallap* to be taken at Night, which he must otherwise pass without sleep and in most grievous pains: He was purged ten times to good purpose, for the pains were very much abated, and consequently in a short time quite discussed. He was a man of fifty years old, of a black cholerick temperament, tossed with many passions of mind, by reason

reason of his being Consul that year. And therefore I did conjecture that these pains proceeded from a very thin and sharp wheyish matter, which was carried this way and that way in a kind of Furious motion; and that therefore it was soon to be drawn forth by a purging Medicament.

If thou wouldst be a helpful Friend to Man-kind, be a diligent Reader of *Riverius* Practice of Physick; and the *Idea* of Physick; and the best way to Physick and Chyrurgery; and the *London Dispensatory*, all of the last Edition.

The 152 Observation or History of Famous and Rare Cures, &c.

Spitting of Blood.

ON the Tenth of *Decemb.* 1638. the Wife of *Msr. Capon*, Auditor in the Court of Accounts, fifty years of Age, after midnight was taken with a plentiful Spitting of Blood which she brought up by coughing, and perceived it to be very salt. It continued till morning, returning by fits; at what time I being called, presently caused her to bleed seven ounces from her Arm, and after two hours to bleed as much more. After blood-letting she took a Julep of Plantane and Lettuce Waters, with six drams of Syrup of Violets, and two drams of Syrup of Poppy. I caused Frictions and Ligatures to be made upon her Legs, and Cupping-Glasses to be frequently applied under her short Ribs; and a thickning and astringent lick-pot. At Night she took a Syrup compounded of equal parts of Syrup of Violets, dried Roses, and Poppies, *viz.* a spoonful when she lay down to sleep; the other after midnight; and her spitting of blood returned no more.

The 153 Observation or History of Famous and Rare Cures, &c.

A Cancerous Tumor in the Liver, with Sciatica Pains.

ON the 17. of *Decemb.* 1638. the Widow of *Peter Aubert*, a Merchant of *Montpelier*, lay sick many Moneths, being troubled with a continual Feaver; she had most cruel pains in her left huckle-bone, which reached to the further end of her Foot. Moreover a Tumor was discerned in her Belly, towards her Navil, enclining to the right hand, and hard, so that it was counted schirrous, and was placed among the Muscles of the *Epigastrium*, because it was felt immediately under the skin, and was not painful but being touched. Sometimes biting pains did occupy her left shoulder, and her side it self, so as to counterfeit the Pleurisie. We imagined those pains did come from a most sharp serous matter, which was bred in her Liver being exceeding hot. The blood which was taken away was most fervent, and black and blew: She never felt any ease save by *Laudanum*; by means whereof her pains were eased. When the pain in her Hip grew worse, and a Tumor appeared in the part though not indifferent in colour: Also the part being compressed did ache much: As also the Patient perceived cutting pains in the same part by Fits: Chyrurgions were called, who affirmed constantly, that there lay hid a deep Impolthumes, and so after consultation, the part was opened with a small Incision-knife and a Caustick, no quittor came forth. Fifteen days after the opening her Belly before swelled, was now more swelled, and she became Hydropick, and at last died suffocated. Her Body being opened, her Liver was found full of Schirrhous Tumors, and for the most part suppurated; in the extremity whereof, there were two Cancerous Tumors sticking out as far as her Navil, and equall a Mans fist in greatness, touching another in a manner, which caused that swelling in her Belly aforesaid: Neither were they thought to be in her Liver, because they were not in the natural place of her Liver; yea the Liver was felt at a distance from those Tumors, but hard and painful; because the foresaid Tumors were more prominent, than the rest of the substance of the Liver. Her whole Liver did weigh twenty pound and more. Her Hip was cut up as far as to the bone in the place of the opening, and certain small glandules were found suppurated, which contained congealed Quittor, so that it could not flow out.

The 154 Observation or History of Famous and Rare Cures, &c.

Kings-Evil Swellings

ON the 8. of *January*, 1639. A certain Maiden of *Nismes*, being 18 years old, was troubled with Kings-Evil Swellings in her Neck, which were suppured by many Remedies a long time applied, and afterwards consolidated. Howbeit, a part of the Tumors remained exceeding hard, which could not be dissolved, no not with *Emplastrum de Vigo*, Roman Vitriol, and *Gum Ammoniacum* dissolved and thickned again, of each an equal quantity, with as much Turpentine as should suffice: With which Plaisters those Tumors were perfectly dissolved in a Moneths space: Convenient Diet being in the mean while used, and convenient Evacuations sometimes made use of.

The 155 Observation or History of Famous and Rare Cures, &c.

Inordinate Flux of the Courses with the Whites.

ON the 15. of *January*, 1639. The Wife of *M^r de Rignac*, Proctor General of the Court of Exchequer, having a fat, burly and flegmatick Body, after Abortions she was troubled with an inordinate flux of her Courses, and with the Whites. She was happily cured with Blood-letting, Purgation, a Diet-drink of *Salsa*, and a fine powder of Frankincense, Maltich, Sandarach, Amber, Borax, Benjamin, Cloves, Nutmeg and Red-Roses, received by a Funnel morning and evening a long time together.

The 156 Observation or History of Famous and Rare Cures, &c.

Grievous and lasting Head-ach.

ON the 29. of *March*, 1639. A Woman of *Frontinia*, being 40 years of Age, of a black choleric temper having suffered Abortion; afterwards she wanted her Courses, whereupon a most grievous Head-ach afflicted her for four Moneths together, Blood-lettings doing her no good, nor Leaches applied to her Forehead and Temples, and other Remedies. I being sent for, appointed her temporal Artery to be opened, which was excellently performed; nor did the blood come out leaping by reason of the smallness of the Artery, and the thickness of the blood, but drop by drop: there was taken away to the quantity of five ounces, red and florid, both externally and internally. The Orifice was stopped with a Plaister of Maltich only, with a simple Ligature; and after that another Ligature which is wont to be made in wounds of the Head, having continued sticking on five hours. She was freed from the pain of her Head, and was troubled therewith no more.

The 157 Observation or History of Famous and Rare Cures, &c.

A Tertian Ague.

THE 14. of *July*, 1639. *M^r de Vandiere*, a Student of Physick, after five fits of a Tertian Ague, having been twice let blood and once purged, took at the beginning of his fit a good dose of *Aqua Benedic^ta*, his fit was stopped, as also the working of the Medicine for two hours: afterwards he vomited five or six times without trouble, because in every Vomit he took four or five ounces of ordinary Pease-Broth. The fit was shorter than ordinary, and at the end thereof he had divers stools, and was perfectly cured.

The 158 Observation or History of Famous and Rare Cures, &c.

Nephritick Pains.

THE 22. of July, 1639. I was troubled with a Cholick pain, which extreamly tormented me in the bottom of my Belly, and about my right Kidney. After two Clysters, the pain of my Belly ceased. The pain of my Kidney continued, which reached all along the Uretor, with a pulling back of my left Testicle, so that it was a true Nephritick pain. It was dissolved with an hot Bath, because when the Bath was luke-warm, it encreased the pain. The pain came again, and was moved by application of Cupping-glasses to the part. The day after it returned again, and went away again upon application of the Cupping-glasses; soon after I took a Bolus of Cassia, Catholicon, Rhubarb and Cream of Tartar, and the pain returned no more. I conceived this Nephritick pain was caused by Wind, seeing with discussive Remedies, viz. an hot Bath and Cupping-glasses, it was asswaged, and no obstructive matter, as Stone, Gravel or Flegm was by me voided in my Urines, after the solution of the Disease, in the Disease, or at any time before. Nor is it impossible that the same kind of Winds, which insinuate themselves between the coats of the Guts, may be transferred into the Kidneys and Uretors, and cause grievous distensions in those parts, seeing that Winds are wont to be conveyed into all parts of the Body sometimes, and in them to raise either pains or Palpitations. Yea and very many think that the most vehement pains of the Teeth are caused by Winds shut up in the Vessels which creep about the roots of the Teeth. My conjecture was strengthened, because when my Purge did work, the Winds were sensibly carried from my Loins to my Belly with a gentle noise which was easily heard by the by-standers.

The 159 Observation or History of Famous and Rare Cures, &c.

A Loosness.

A Few days after the Disease aforesaid, I was taken with a cholerick Loosness, so full of Acrimony, that it did corrode my Fundament, and caused sharpness of Urine, a portion of the matter being translated to the Urines, a Dysentery was at hand. Having entred into a luke-warm Bath to sit in; I was presently cured.

The 160 Observation or History of Famous and Rare Cures, &c.

Falling-sickness in a Child.

A Boy three years old, had a Fit of the Falling-Sickness, from which he was freed with the smoak of Tobacco; which a Servant drew out of a Pipe, and blew into the open mouth of the Boy; the Boy fell a vomiting, and the Fit ceased.

The 161 Observation or History of Famous and Rare Cures, &c.

A beginning Consumption.

THE 15. of October 1639. The Son of Msr. Le Sage of Montpellier, being 20 years old, for two Moneths had been troubled with a deflux of Rheum into his Lungs, with a Cough, shortness of Breath and a slow Feaver, so that he seemed to be fallen into a Consumption. I prescribed him blood-letting, a Purge of Manna, medicated Broths, and other ordinary Remedies; But the chief were a Caustick to each Arm-pit, which does most potently derive fluxions to the Breast and Humors therein contained; and herewith he was restored in a Moneths space.

The

The 162 Observation or History of Famous and Rare Cures, &c.

A Malignant Feaver.

THe 18. of October, 1639. *John Vezian*, a Perfumer in *Montpelier*, being 24 years of Age, was troubled with a Malignant Feaver, by means whereof, about the eleventh day of the Disease he fell into a Raving Fit, and a few days after into trembling and Convulsive motions of his Nerves, which are wont to attend a deadly Phrenzy; he continued Raving near a Moneth together; his Convulsions lasted twelve dayes, and at last he escaped, after the use of many Remedies. Those that did most good were the opening a vein in his Forehead, and Juleps made of four ounces of *Carduus Water*, three drams of *Treacle Water*, two scruples of *Bezoardicum Minerale*, and 12 grains of *Camphire*. Which Julep he took five times.

The eighth day of *December*, 1639. *Peter Randon*, a Stone-Cutter 30 years of Age, was taken with the like Disease, which seemed very gentle till the seventh day, wherein he began to rave. On the eleventh day the Vein of his forehead was opened, the day after he took the foresaid Julep twice, and the day following once, and with them, all the malignity was disscussed.

The 163 Observation or History of Famous and Rare Cures, &c.

A Pleurisie.

THe 15. of *December*, 1639. The Wife of *Msr. Glaucelius*, Councillour in the Court of Accounts, Subsidies and Exchequer, twenty years old, fell into a Pleurisie in her left side, the same day in which her Courses began to appear, which nevertheless were well near suppressed, seeing a very small quantity of reddish matter only was voided, but nothing appeared having the colour of blood. I being sent for in the morning before day-light, was somewhat in doubt, Whether or no her Ankle Vein should not be opened, to assist the motion of Nature. But because the pain of her side was very urgent, and nothing worth speaking of was voided by her Womb, I thought it better to open a Vein in her Arm on the same side, which proved successful; for the pain of her side was very much abated. Presently after blood-letting I caused her Thighs to be rubbed, and her Legs to be tied, and Cupping-glasses to be applied to her Thighs to help forward her menstrual purgation. After noon her Ankle Vein was opened, Fomentations applied to her sides, and Liniments, also a Clister was given her between her two Blood-lettings. Juleps were appointed with *Sal Prunella*; on the second and third day of the Moneth they did continue a little, but in a very small quantity. Yet because the the sickness was not urgent, we left the business to Nature, especially seeing she did spit freely and plentifully, by which much Flegm was voided, coloured with a light reddish colour. On the fourth day, when her Courses had left her, and her Disease was not abated, she was again let blood in the morning, to the quantity of nine ounces, and after dinner again, the quantity of six ounces. The fifth time she was again let blood to six ounces in the morning, which blood was like the former, viz. very flegmatick, the Woman being nevertheless lean and of a cholerick constitution. At the bottom of the Porringer it appeared adust. The same day in the Afternoon she was again let blood to six ounces, and the blood appeared red in the top, which appeared white before. Hence I gathered, that she had been sufficiently let blood, seeing blood had been taken away, till the colour thereof was changed, according to the precept of *Hypocrates*; and the Patient was somewhat better, and slept three or four hours in the night, whereas she could never sleep before during her Illness. Howbeit in her Emulsions, two drams of Syrup of Poppy were commixed, her Emulsions continued with *Sal Prunella*, and a Cataplasim applied to her side of the materials of the Fomentation, with Flower of Linseed, Oyl of Lillies, Oyl of sweet Almonds, fresh new made Butter and Saffron. The sixth day he took a roasted Apple, into which had been put a dram of Frankincense powdered, & drunk four ounces of *Carduus Water* after it, and covering her body more than ordinary, to provoke her to sweat. At Nine a clock in the morning this Medicament was given her, she did not sweat, but her spittle appeared for 3. or 4. hours more tainted with blood, and

came up more easily. About two of the clock in the Afternoon, her spittle appeared no longer red, but altogether white, her Feaver was more remiss, and the pain of her Side was quite allay'd, so that she could lie without pain on which Side she pleas'd. Emulsions were continued to temper the Feaver of her Blood. On the seventh day her menstrual Purgations broke forth plentifully, and continued for four dayes together, by which means her Feaver was very much lessened, and the pain of her Side wholly taken away. On the Twelfth day she was purged with a Medicament of half an ounce of *Senna*, one dram of *Rhubarb*, *Manna*, and Syrup of *Roses*, of each one ounce. The Purgation did luck well, and the Patient was perfectly cured.

At the same time a certain Countrey Woman was troubled with the same Disease, after the seventh blood-letting her Disease was abated; on the twelfth day she was purged with the like Medicament, whereby she was much eased, and the disease began to decline a few dayes afterward.

The Knowledg and Cure of most Diseases in Man are to be had from these Books, The Practice of Physick, the Idea of Physick, The Guide to Physick and Chirurgery, and the London Dispensatory of the last Editions.

The 164 Observation or History of Famous and Rare Cures, &c.

A Malignant Feaver.

ON the 11th of January, 1640. a Woman 50 years old, named *Martina*, a Broker for Oyl, was taken with a Malignant Feaver, with broad Violet spots about her Shoulders and Neck in small quantity. I was called on the sixth day of the Disease, her Pulse was low and languid, she was very sleepy, and her Disease accompanied with a dead sleepiness. She was twice let blood; I appointed her an Emollient and Laxative Clyster, a Vescatory to her Neck, cooling Juleps, with Antidotes. On the seventh day all things were worse. On the eighth day, being sent for again, I prescribed her a *Diaphoretick* potion of two scruples of *Bezoarticum Minerale*, and twelve grains of *Camphire* with *Carduus* Water, which was three times repeated. After it was first given, a *Diaphoretick* Fomentation was added, to be applied to her whole Belly and Breast with Spunges after she had took the Potion; and her Pulse became stronger and more ordinate. Being called again after two dayes, I found the signs of malignity as yet strong, whereby she was in extream danger. I appointed her Juleps of a Decoction of *Cinquesoyl*, *White Thistle*, *Bugloss*, *Scordium Leaves*, *Sorrel*, &c. to be taken Morning and Evening; and four Vescatories to be applied to her Arms and Thighs. On the eleventh day a rising appeared behind her Ear, which was brought to suppuration by Topick Medicaments, and at last the sick Woman was restored to her former Health.

The 165 Observation or History of Famous and Rare Cures, &c.

The Dropsie.

THE 8. of November, 1640. the Maid-servant of Msr. de Cross his Wife, a Famous Advocate, after a Tertian Ague fell into the Dropsie, because she had in her Fits drunk abundance of Water. I prescribed her the Infusion of *Senna* with Salt of *Tartar* for twelve dayes, after which she was somewhat better. Afterwards this following *Apozem* was given her.

Take *Elicampane* Roots, Roots of *Gentian*, *Valerian*, our *Orris* and long *Birchwort*, of each one ounce; Bark of *Caper* Roots, middle rind of *Ash* and *Tamarisk*, of each half an ounce; Leaves of *Agri-mony*, the two *Wormwoods*, *Ground Oak* and *Centaury*, of each one handful. Liquors scraped and Raisins stoned, of each one ounce. *Senna* one ounce. *Turbit* and *Agarick*, of each half an ounce: Dwarf Elder seeds three drams. *Ginger* and *Cloves*, of each one ounce. Boyl all to twelve ounces. In the strained Liquor dissolve Syrup of *Cichory* with *Rhubarb* four ounces. Make an *Apozem* for four Mornings Doses.

With this *Apozem* she voided all the Hydropical humours by Stool and Urine, and was perfectly cured.

It did not a little help forward the Cure, that whilst she was using a Fume to discuss the Tumor of her Legs, she burnt both her Legs, whence followed Ulcers, from which much Water flowed during the use of the *Apozemes*.

The 166 Observation or History of Famous and Rare Cures, &c.

A Quartan Ague.

ON the 15. of October, 1640. the Son of Msr. Roche, twelve years old, was freed from a Quartan Ague, by an Infusion of *Senna* and Cream of Tartar, which he took for seven dayes together.

On the 14. of November, Msr. Pelliserius, Thirty years old, had a Quartan Ague for three moneths; in the beginning of November, after the use of an apperitive *Apozeme*, which he took a little before four dayes together, Purgatives being also mingled therewith. At last I prescribed him an Infusion of *Senna* with Salt of Tartar, for fifteen dayes. And at the twelfth time taking the Ague fit ceased and came no more. Now he was of a Melancholick temper, hard to work on, a strong tall man. At first there was infused half an ounce of *Senna*, with a dram of Tartar Christallized in ten ounces of Water: wherewith he was purged twice in a day. After some dayes I put in four scruples of the Tartar, and he was purged twice in a day.

After the use of this Medicament, though he was free from his Ague-Fits, I prescribed him a strengthening and opening Electuary for twelve dayes. By the use whereof his Face was restored to its ancient Comeliness.

The 167 Observation or History of Famous and Rare Cures, &c.

A Dropisie.

ON the 20. of February, 1641. The Widow of Paul du Crafts, a Citizen of Montpelier, sixty years old, was taken with a Dropisie and shortness of Breath, so that her whole Belly, Thighs and Legs were swollen very much. She was all her life-time of a very Fat and Phlegmatick habit of Body, I prescribed her after some other Remedies, a Decoction of *Guaia-cum*, with *Senna*, *Agarick*, *Turbet* and *Hermodactyls*, to be used for fifteen dayes together.

Afterwards, with these two following Remedies continued for a moneth, she was perfectly Cured.

Take Roots of *Elicampne*, *Smallage*, *Fennel* and *Orris* dried, of each one dram and an half; Roots of *Valerian*, *Gentian*, *Asarum*, *Squills*, of each one ounce. The middle Bark of *Elder* and *Saxafras* wood, of each six drams. Leaves of *Wormwood*, *Agrimony*, *Ground Oak*, *Maiden-Hair* dried, of each two drams. Tops of *Centaury* and *Broom-flowers*, of each one dram. Seeds of *Parsly*, *Ameos* and *Dill*, of each one dram and an half. *Cinnamon* two drams. Bruise and shake them together, and infuse them in four pints of *White Wine* certain dayes. And let her take two or three ounces of this *Wine* every day in the morning two hours before meat.

Every fourth or fifth day let her take a Dose of this following Powder:

Take *Senna* cleansed, *Gum-Turbith*, *Hermodactyls*, *Dwarf-Elder-seed*, Roots of *Jallap* and *Mchoacan*, of each one ounce: Cream of Tartar two drams. *Cambogia* half a dram: Powder *Diambre* à *Diarrhodon Abbatis*, and sweet *Fennel* seeds, of each a scruple: *Sugar-Candy* three drams. Make all into a Powder, two drams whereof must be infused all Night in four ounces of the foresaid *Wine*. Let her drink the *Wine* and Powder together in the Morning.

The 168 Observation or History of Famous and Rare Cures, &c.

An Ulcer of the Gums.

ON the 23 of February 1641. The Daughter of M^r. de Rasteneclieres, being 18. years old, having endured for two years together stubborn Ulcers of her Gums, in her lower Jaw-bone, at the roots of her three former Teeth which are called Cutters, so that her Teeth were loose, and were bare of flesh to the very holes: She could not be freed from this Disease, without much Pain and many Remedies; because it depended upon an hot and dry distemper of the Spleen, and consequently upon a black Chollerick Constitution. When she had been a year cured, there arose a pustule in the same place, but a little lower, viz. By the Jaw-bone, and in that part where the Lower Lips begins to be separated from the Jaw-bone. After four or five moneths, using no Remedy, the pustule broke, and an Ulcer remained, with part of the Jaw-bone bare, appearing to the lookers on perfectly bare as broad as half a mans Nail.

After blood-letting and purgation, the Ulcer was perfectly healed within fifteen days space, with this following Balsome.

Take choice of Myrrh, and Sugar-Candy of each a like quantity, powder them and fill therewith the Whites of Eggs hard boyled, and cut asunder in the middle: tie them well with threads and hang them on sticks laid cross a Glass or Basin, and set them in a Cellar. From them will drop a liquor or Balsom, with which let the part be anointed oft-times in a day.

The 169 Observation or History of Famous and Rare Cures, &c.

Puffing up of the whole Body of a little Boy.

THE 3. of June, 1641. The Son of one Roche, a Citizen of Montpelier, 18 Moneths old, was blown up suddenly all his body over with a Fever; and another Son of the same Family died of the Disease. I prescribed him sundry Remedies for ten or twelve dayes, viz. A Purge, Clysters, Aperitive Juleps, a Veficatory, Oyntments. At last I prescribed a Syrup of the decoction of Agrimony, Roman and common Wormwood and Centaury, to be taken out of a spoon, twice in a day; and within three dayes he was well, a Loosness following, with plenty of Urine.

The 170 Observation or History of Famous and Rare Cure, &c.

A Venereal pain in one Arm.

THE 15. of June, 1641. an outlandish Gentleman, thirty years old, had two years before been infected with the Venereal Pox, by means of which being ill cured, there did remain a pain in his left Arm, all along well near, which was worst at night, and it seemed to be about the Peristium or Membrane which covers the bones. I prescribed him an universal purgation; and to be let blood twice. After that a sweating diet for twelve dayes, in the morning he took the decoction to sweat, and at evening his Arm was held over the stream of a decoction of Guajacum and Cephalick Herbs made in water and white-Wine, which was sprinkled upon hot flints, and thereby much sweat came from his Arm. After the sweat there was applied the Plaister of Vigo with a fourfold quantity of Mercury. When his sweating drink was done, the fume was continued for five days, every morning and evening; and afterwards that Plaister was applied, which is prescribed for the Sciatica, made of Orpiment, Verdegrease, &c. Which raised pustules and little Ulcers, in those places where the greatest pain was wont to be, and so he was perfectly cured.

The 171 Observation or History of Famous and Rare Cures, &c.

Of a Chollerick Cholick.

A Certain Religious Person, was subject to a long and stubborn Chollerick Cholick, which went and came frequently. Some body did counsel him, to take in the morning, a piece of fresh Butter and to drink a little Wine upon it. By this Remedy continued a long time together, he was perfectly cured of the said pain, and never troubled therewith any more.

The 172 Observation or History of Famous and Rare Cures, &c.

Sciatica pain.

THE Son of M^r. *Pascheque* the Physitian of *Lunelle*, my very dear Friend, was taken with a pain in his Huckle bone. After which followed a kind of nummedness of his Arms, nor could he well use his Fingers, also he could not well fetch his Wind. All these Symptoms came from one and the same Disease, by reason of the fourth Muscle of the Chest, which arises from the Os Sacrum, and the inner Os Ilij, and climbing up by the Vertebraes of the Loyns, does cleave to the ten first Ribs, and is inserted into the seventh Vertebra of the Neck: So then it is no wonder, if when this Muscle is affected in its beginning, with swelling pain or any wearyness which is tensive, ulcerous or Phlegmonous; that them parts shall be affected, unto which it is fastened. Seeing therefore it serves to respiration, that comes to be hurt, when this Muscle is diseased in its originall; And seeing it is inserted into the Vertebraes of the Neck, from which the Nerves of the Arms do spring, it is rational that the Actions of the Arms and Fingers should also be hindred. These things are more largely explained by *Sanctorium*, in the 20. Chapter, of his second Book, *De Vitandis Erroribus*.

The 173 Observation or History of Famous and Rare Cures, &c.

A Malignant Feaver.

THE 26 of October. 1641. The Daughter of M^r. *Conte*, a Merchant of *Montpelier*, twenty years old, was taken with a Malignant Feaver, proceeded so far, notwithstanding ordinary remedies, that about the eleventh day of her Disease, she fell into Raving by fits, and contractions of her Nerves, which appeared chiefly in her Wrists: Unto which were added fainting fits sometimes, and very black furredness sticking to her Teeth. Her Tongue was rough, black and burnt. In his dangerous condition besides Epithems, young Pidgeons, and other strengthening things internal and external; I prescribed these following Remedies, which are wont to be of greatest Efficacy in these Diseases, viz. Five Vesicatories, to be applied to her Neck, Arms and Thighs; Juleps of three ounces of Carduus water, three drams of *Banderon* his Treacle water, two scruples of Bezoardicum Minerale, and six grains of Camphire; with Juleps she took two dayes morning and evening. Also a scruple of the said Bezoardicum Minerale was given her in every dose of broth. With these Remedies, she was in a few dayes freed from this grievous Disease.

The 174 Observation or History of Famous and Rare Cures, &c.

Gonorrhæa.

A Man forty years old from an impure bedfellow caught the Gonorrhæa, for whom I appointed at first a Bolus of one ounce of Cassia, Rhubarb powdered and Cream of Tartar,

tar of each one dram. The day following I would have had him let blood in the foot, but he refused. Emulsions were prescribed him, for three or four days, wherewith the Acrimony of his Urine was tempered, the flux continuing after the same manner. Afterwards he used a laxative Ptisan for seven days together, made after this manner.

Take Tamarinds two ounces; Fountain water four pints, boyl them to three pints. In the strained liquor being cold, steep all night Senna, Coriander seed, Liquoris, and red-Roses, of each two drams. Let him take a draught in the morning an hour before meat. With this, his flux was very much abated; for the total removing whereof, I prescribed this following Bolus.

Take Venice Turpentine three drams; Rhubarb powdered one dram; make a Bolus, which let him take every morning for five days together.

Then he used this following water for seven days.

Take dried Mints three ounces, Seeds of Lettuce, Rue and Agnus Castus, of each two ounces and an half. Orris root two ounces. Diſtamus ten drams, the best Sugar two pounds, Powder all, and add thereto five ounces of Venice Turpentine, strong white wine thirty ounces. Mix them and distill them in Balneo, Let him take two Spoonfuls in the morning, two hours before meat. Thus was this Gonorrhœa cured. Yet because a little moisture did frequently appear on the top of his yard, as is wont for the most part to happen, in the end of a Gonorrhœa; perfectly to stop and dry the same up, I appointed these following Pills.

Take Gum Arabick, Tragacanth, Amber, Mummy, Bole-Armenic, of each one, dram, powder them, and with Syrup of dried Roses, make a mass of Pil-stuf, Of which let him take one scruple every morning, two hours before meat, for eight or nine days together. And so his flux was perfectly stopped.

The 175 Observation or History of Famous and Rare Cures, &c.

Of Empiema.

THE Son of Msr. Plantade, a Councillour in the Court of Accounts, Subsidies, and the Exchequer, being five years old, had a continual Feaver for about two months together, with a frequent and troublesome Cough; so that he was thought to incline to a Consumption. At last, Physitians being called to consult, they were informed that he complained of a pain in his left side, especially if he were handled thereabouts. Also it was related, that when his Feaver began, he felt some pain in that side, which ceased within a few days: And therefore his ordinary Physitian judged that it was no Pleurisie that troubled him. It was suspected some Empiema that lay hidden in that part, and the better to manifest the matter, it was resolved to apply and Emollient and drawing Cataplasin for some days; after three days usage, whereof a certain rising began to appear in the part, and an obscure rowling to and fro of some Humor was perceived. The Physitians being again called to consult, no man doubted but that it was an Empiema: And being opened, good store of Quittor came forth, and the evacuation thereof was continued for two months, till all the Matter was voided forth, and the Patient was at last restored to his former Health.

The 176 Observation or History of Famous and Rare Cures, &c.

An Ulcer with Corruption of the Bone.

A Boy fifteen years old, had an Ulcer a long time upon the upper part of his foot, between the Instep and Toes, which a skilful Chyrurgeon that had him a whole year in hand could not cure. Another younger Chyrurgeon to whom the Patient was afterwards committed, having widened the Ulcer, and perceiving that there was a corruption in the Bones, he applied Pulvis Catagmaticus, to take away the said Corruption, but in vain. Afterwards he askt my advice, I bid him apply some Powder of Euphorbium, with liat; many small splints of Bones came out

the second day he laid on the Linnen bolster alone, the third day he applyed the same powder again and more splinters of bones came out, so that the bone appeared at last clean and free from rottenness, and the Ulcer was afterward in a short time cured.

The 177 Observation or History of Famous and Rare Cures, &c.

Difficulty of breathing, with a very uneven pulse.

THE most excellent Lady *Madam de la Roquette*, sixty years of Age, being very fat and burly, living a sedentary life, very religious, and given dayly to prayers, began fifteen years since to be troubled with shortness of breath, which encreased by little and little, so that now she could not go up stairs, without resting at every third or fourth step. About the beginning of *January 1642*. Being upon a Journey, when the wind was South and the Weather rainy, she was suddenly taken with a Catarrh, falling partly upon her Lungs and partly upon her Jaw-bone. Whereupon her shortness of breath encreased, her right cheek was swelled, and her Jawes were so straitened, that she could take in no meat, but only broth she could sip a little. She had been accustomed to be troubled at times for many years together, with a red swelling of her left Leg, which was wont often to be exulcerated, and before the coming of this Catarrh, she had the said swelling, with large exulceration. I being called unto her the eighth day of her Disease, found her pulse very uneven, and intermitted after every third and fourth stroak, with a very great difficulty of breathing. Which made me conjecture, that the Disease was grievous, not only in her Lungs, but also in her Heart, or the Vessels nearest the same, and I foretold that she should die. Which Prognostication was rendred thereby more certain, because the Ulcer aforesaid in her Leg, was all of a sudden dried up, according to that saying of *Hippocrates* in the 25 Aphorism of the 6 Section; for an Erysipelatous swelling to strike in is a bad design. Moreover the swelling of her cheek being in a few days resolved, her Jaws remained shut nevertheless, and it was apparent, that the colour of her Jaws did proceed from a convulsion of the Muscles which should move the same. On the 15 day of her Disease in the morning her right eye was observed to be shut, the other being open, which happened by reason of the Pallie in her Eyelid, which threatned somewhat worse to follow, which accordingly happened the same day in the afternoon, *viz.* her left side became Paralytical. And three dayes after, her strength decaying by little and little, she died.

In the whole course of her Disease no Cough did follow her shortness of breath, nor any rattling of her Pipes, unless it were one day before her death. Her body being opened, her spleen was found putrid, so that being lightly pressed it would break in pieces. The substance of her Lungs was of a black and blue colour, and full of a watry humour, and one lap thereof, on the left side, was full of a putrid and mattery Flegm. The right ventricle of her Heart, had no Membrane in the inside, was putrid and ulcerated; so that if you toucht the fleshy fibres thereof with your fingers tops, they would crumble to pieces. The right Ear of the Heart seemed bigger than ordinary, and was filled up with a certain fleshy substance partly red, and partly black, like congealed blood, which nevertheless could not be broken asunder with ones hand. These two Diseases, *viz.* Of the Ear and the Ventricle of the Heart, I conceive to have been the cause of so much inequality and intermission of her pulse, whiles the Heart seeking to shake that off which troubled it, was exercised with sundry motions, whence followed the interruption and interception of the natural pulse; but that her difficulty of breathing sprung from the stoppage of her Lungs, is manifest enough.

It was my hap to see the like inequality of pulse, in two other sick persons, one of which was the the Son of *Mrs. Holt*, a Merchant of *Mompelien*, five years old, who being long vexed with such an equality of pulse, at last died. In his opened body, there appeared nothing preternatural, but the right Ear of his Heart, which was much greater than ordinary, and was full of a certain hard, congealed, Flegmatick substance, like a great nut, which hindered the free motion of the Heart and caused the aforesaid inequality. The like pulse appeared in the Daughter of *Mrs. C.* 20 years of age, in whose opened body an Ulcer was found in the very Heart, whereby well near half the substance thereof was consumed. The History of these Cases are described in the former Observations.

The 178 Observation or History of Famous and Rare Cures, &c.

A Consumption.

THE Daughter of M^r. *Salomon*, a Citizen of *Montpelier*, about twenty five years old, being of a very chollick complexion, was troubled some months together, with a grievous defluxion of Rheum falling down upon her Lungs, with a troublesome Cough night and day, want of sleep, pain in her breast, a strong Fever, costiveness and Leanness of her whole Body; so that she shewed absolutely to be in a consumption, kept her bed many days, and made haste unto the Grave. I being called, and observing the very hot distemper of the Bowels, and the perpetual costiveness of her belly, which was very troublesome, premising a Clyster, I caused her to bleed seven ounces. And soon after I caused two Causticks to be applied between her shoulders, near her back-bone. I prescribed her a laxative Ptisan, to be used five days together, which was thus made.

Take Tamarinds one ounce and half; Fountain water three pints. Boyl them to a quart. In the strained Liquor being cold, infuse all night, Senna, Coriander seeds and Liquoris bruised, of each two drams, Red Rose leaves, one dram. Let her take a Cup of the strained Liquor every morning, an hour before meat.

With these few Remedies she was so recovered, that after fifteen days, she rose out of her bed, and began to go about her usual work. Yet her costiveness and want of sleep continued, against which I prescribed, first a Bolus of one dram of Conserve of Roses, and a grain of *Laudanum*. Wherewith she slept four or five hours, and after that whole nights together, for the most part, without any other help. Then I ordered her to take the aforesaid laxative Ptisan again for some days together. The Spring following, having used Asses Milk for a Month together, she was perfectly cured.

The 179 Observation or History of Famous and Rare Cures, &c.

A Pleurisie.

THE fourth of *April*, 1642. The Son of M^r. *Roche* a Citizen of *Montpelier*, twelve years old was sick of a Pleurisie, in his right side; he was five times let blood, and other ordinary Remedies were administered to the seventh day. The Fever was violent, with great uneasiness, and the pain did very much trouble him. On the seventh day half a dram of Chimney-foot powdered was given him in Carduus water; within two hours after, all the Symptoms were very much abated, and the Patient was much better, and afterwards by little and little recovered.

The 180 Observation or History of Famous and Rare Cures, &c.

A Hoarsness.

THE Daughter of M^r. *Viventius* of *Lunelle*, being twenty years old, exposing her self to the cold Air, fell into a grievous Hoarsness, so that she could hardly speak a word; she had no Cough, no shortness of breath, nor any Catarrh, that appeared. The Disease continued for six Months; many Remedies were used, but in vain. At last while she was asleep, an indifferent quantity of watry substance ran out of her Ear, and she began to speak freely, and with a clear voice. Whence may be conjectured, that the foresaid humour being collected in her brain, did possess that branch of the Nerves, which is carried from the fifth conjugation unto the Muscles of the Larynx, whereby the voice is formed, and so those Muscles became as it were palsied.

Four Months after, another Virgin of *Lunelle*, named *Rudaude*, being troubled with the same Disease eight Months together, desired my advice. Being moved by the foresaid example, I conceived

I conceived that all the scope of the Cure was to be directed to the Evacuation or discussion of the Wheyish or flegmatick matter collected in her Brain. And having premised blood-letting and Purging, I prescribed her a decoction of Guajacum and Sarsaparilla, with Senna, Agarick, Turbith and Hermodactils to be taken twenty days together, with a Diet-drink of Sarsaparilla, and a drying Diet. Afterwards I sent her to the *Balerucan* Baths, where she did sweat for three days, and her Disease was perfectly cured.

The 181 Observation or History of Famous and Rare Cures, &c.

Inveterate Venereal Pox, with an hot and dry and almost Black-chollerick temper.

A Certain Gentleman thirty five years old, of the temperament aforesaid, being for two years troubled with the Venereal Pox, had filthy Ulcers in his Palate, upper Lip, and about the root of the Nose. At first, he was handled with sweating and fluxing, whereby he seemed to be cured; but a few days after, the Ulcers break out afresh, and the Patient is as bad as before. The Cure was again begun with sweatings and Mercurial Oynments, after which he was worse. The third time the Cure was undertaken in a manner quite contrary to the former, by coolers and moisteners, quite omitting such things as are proper for the Pox; but all did no good. At last coming to *Montpelier*, and imploring the advice of three Physicians, he received these following directions, *viz.* That Indication being taken both from the hot and dry distemper of his Bowels, and from the Venereal Disease, he should use these Remedies following:

First, An emollient Clyster.

Secondly, a cooling and purging potion.

Thirdly, Blood-letting to nine ounces.

Fourthly, A cooling and purging Apozem.

Fifthly, A Luke-warm bath for two days.

At the coming forth from the second both the Hemorrhoids were to be provoked.

Afterwards a liberal and temperate Diet-drink was prescribed him of Sarsaparilla and Guajacum, adding at the end of the decoction, Cichory, Endive and Tamarinds, let him use it five days, and sweat very gently.

Mean while let him have a Drink of Sarsaparilla for his ordinary use, and keep a liberal and riot a drying Diet.

After the use of the Sudorifick decoction for five days, let him take the foresaid purging potion again.

For two days let him use the bath again.

Afterwards let him again use the Sudorifick decoctions for five days, made only of the foresaid Sudorificks without the addition of Herbs and Tamarinds. And let sweat be provoked by the Vapors of Spirit of Wine, impregnated with Tincture of Guajacum.

After he has sweat again for five days, let him again be purged with the foresaid potion. And after that let him bathe for two days together.

Then let him sweat again for five days, with a decoction of Guajacum alone, and when the five days are past, let him take the purging potion again, and then let him use a luke-warm bath for two days together.

Let him continue this Method till the Ulcers be healed up. And that their Cure may be the better forwarded, let him use these following Topical Remedies.

First let a Gargarism be made of a decoction of Guajacum, adding the Roots of great Comfrey, and round Birthwort, Leaves of Agrimony, *Vinca peruviana*, *Prunella*, *Musc-Ear*, Betony, of each one handful. Tops of St. Johns-wort, and red-Roses, of each one pugil. Dissolving therein afterwards Honey of Roses.

Let his external Ulcers be cured, first by an infusion of Litteridge made of Vinegar. And if when the Crusts are taken off, they seem very foul, let the following Oyntment be used.

Take Oyl of Roses one ounce and a half, Juice of Plantane and Nightshade, of each one ounce. Boyl all to the Consumption of the Juices, afterwards add of lead burnt and washed
fin

fix drams; White wax, as much as will suffice. Make all into an Oyntment.

If the Gargarism shall seem too ill tasted, it may be made with Birthwort-root, and the quantity of Honey may be augmented; or Sugar of Roses may be put in, instead of Honey.

The Ulcers being cured, let him use yet a moneth or two, the aforesaid Diet-drink.

At the end of the said Diet-drink, let him again purge and bath. And let him take cooling broths for ten dayes together, wherein let one dram of Sal Prunellæ, and half a dram of Cream of Tartar be dissolved, with three drams of fine Sugar.

When he shall begin to take his broths, let a Caustick be applied to both his Legs.

Finally, to confirm the Cure, let him use for some time together, an Opiate compounded of Sudorificks and Purgatives, whose description may be seen in the Dispensatory of *Ren-*
dens.

The 182 Observation or History of Famous and Rare Cures, &c.

Suppression of Urine.

A Certain Man seventy years of Age, having rid some miles upon a trotting Horse, fell into a Suppression of Urine, so that he could hardly make any water, and that only drop by drop. By another Physitian, he had first a Clyster given him, then was let blood, and sat in a bath. Also some Diuretick potions were given him. But finding no ease, and sending for me, I observed a stretching and hardness in the Region of his Bladder, with pain which was only felt by pressing the same. Moreover the Patient had pains in his Back, Shoulders and Breast, so that he could hardly stir himself. It was a Southern and Rainy season. I conjectured that all these Symptoms proceeded from a Catarrh flowing out of his Head, and that the flowing humor had invaded the body of the bladder, and bred some Tumor therein, by which the Sphincter of the bladder was compressed, and the passage of the same bladder made strait. Therefore to direct and evacuate the humour flowing in, I described him a temperate purging Apozem for three dayes, a Vesicatory to be applied to the hinder part of the Neck, and an emollient Fomentation and a little resolving, to be applied to the Region of his bladder, and a Liniment endued with the same vertues. By the use of the Apozem his Urines came away every day better and better, so that three days being past, he made water much more easily and freely. Afterwards I appointed him a Bolus of Turpentine and Liquoris powder for three days together, a Fomentation and Clyster made of a decoction Emollient and more resolving; and a Cataplasme of the residue of the decoction, with Bean-meal, Fænugreek, Oyl of Dill and Chamomel. With these Remedies he was restored to his former health.

The 183 Observation or History of Famous and Rare Cures, &c.

Feavers in Children.

THE Son of M^r. Paul, a Citizen of Montpelier three years old, was taken with a most acute Feaver which soon came to his height; he had a perpetual unquenchable Thirst, which continued from first to the last, and within five days he died. His Hands and Feet were oftentimes cold, and at the last continued so, so that the Disease resembled the Feaver Lipyria. His body being opened, no Inflammation appeared in his Stomach, Guts, or any other part, of which there was great suspicion by reason of the aforesaid Symptoms. And seeing there appeared no Cause of so great Symptoms, and all the Bowels were well constituted; I supposed those Symptoms proceeded from a malignant and venomous quality, viz. from the Small Pox, which were then ripe, which this Child was not able to thrust forth by reason of its native weakness, and the vehemency of the venom. This happened about the beginning of July Anno 1642.

At the same time two little Girles of eight months old, began to be sick of a frequent Looseness, wherewith Leek-coloured and Verdigrease coloured Choller were voided, with a most intense Feaver. I prescribed them both Clysters of broth, the yelk of an Egg, and Confectio de Hyacintho, a Liniment for their Bellies, of oynment of Roses, Comitissæ and Oyl of Quinces; for their Hearts, cooling and strengthening Epithems and Juleps of Plantane water, Purslane water,
Syrup

Syrup of Quinces, *Confectio de Hyacintho* and *Lapis Prunella*. Which they took frequently out of a spoon, and within two days the Feaver was much abated, and almost extinguished, and the looseness very much abated. The Nurse was ordered to use a cooling diet.

The 184 Observation or History of Famous and Rare Cures, &c.

A Dysentery.

ON the third of August, 1642. my Wife fell into a grievous Dysentery in the afternoon, having taken the day before a gentle medicament; now this Disease was at that time very ripe. At bed time, I gave her two grains of *Laudanum*, in conserve of Roses; the day after at two a clock after dinner, the Disease continuing, I gave her two grains more of *Laudanum*. Her looseness continued without blood, which continued five or six days, not very troublesome. And at last with a medicament of Infusion of Rhubarb and *Myrabolans*, with powder of Rhubarb and Syrup of Roses, it was quite cured.

The 185 Observation or History of Famous and Rare Cures, &c.

Of a Dropsie.

John Haguenote, a Chyrurgeon about twenty seven years of Age, was troubled with the Rheumatick Disease, with pains all his body over, proceeding from a hot distemper of his Liver; which Disease continuing four or five moneths, brought him to an extream leanness, with a continual slow Feaver. At last, notwithstanding divers Remedies administred to overcome so great a Disease, he fell into a Dropsie, which was partly Ascites, and partly Tympanites, by which his belly was swelled to a great Bulk. After many Medicines tried in vain, and many consultations to no effect, when he seemed wholly desperate, he was committed to my care alone. He was extream lean, so that his Muscles were wholly consumed, as in an Hectick Feaver of the third degree. I conceived the very substance of his Liver was extreamly decayed, so that it was impossible to restore the same. Wherefore promising a Prognostick to that effect, I set upon the cure for experience sake, on the fourth day of August, 1642. And in the first place I gave him universal purging Pills with one scruple of *Calomelanos* of *Turquetus*, he had six stools, and bore it well, and avoided many Wheyish and Phlegmatick excrements.

The following day, he began the use of these following Apozems.

Take of *Asparagus*, *Butchers-broom* and *Elicampane*, of each one ounce. The middle bark of *Ash* and *Tamarisk*, of each half an ounce; Roots of *Valerian*, round *Birth-wort*, and *Asarum*, of each two drams. Leaves of *Cichory*, *Agrimony*, *Ceterach* and *Maiden-hair*, of each one handful; of the two *Wormwoods*, *Ground Oak* and *Centaury*, of each half an handful. Boyl them to a pint, and in the strained liquor dissolve Syrup of *Maiden-hair*, three ounces. Make of all an Apozem for three mornings doses, adding to every dose one dram of *Diuretick Salt*, and thirty Drops of *Diuretick Spirit*. This he continued for six days, and voided twice or thrice a day *Flegmatick* and *Wheyish* excrements. On the seventh day he took the foresaid Pills, with the same effect. Afterward he continued his Apozems for fifteen days, and the swelling of his whole belly was abated, for he went to stool every day four or five times, voiding *Flegmatick* and *Wheyish* excrements, and plenty of Urine. He continued extream lean and without any appetite. I prescribed him a powder of one dram of *Vitriolum Martis*, and two drams of powder of *Ivory*, he took at first one scruple in the morning with *Panada*; and at the same time he took morning and evening two spoonfuls of *Tincture of Roses*: These were continued only for two days. But because his belly was yet somewhat swollen, and he voided *Flegmatick* and very crude matter by stool, he returned to his opening Juleps which were made of a decoction of temperate and opening herbs and roots, the Salt and Spirit aforesaid being added, because from the long use of the aforesaid decoction I feared he should be too much dried. He took the said Julep in the evening, without the Salt and Spirit, but with Juyce of Lemons to quench his thirst. He voided

as before flegmatick and watry excrements. To his evening Julep was added sometimes one ounce of tincture of Corals, to strengthen and cool his Liver. These things being continued for twelve days together, his belly was quite fallen, and the skin of his whole body felt softer; his Muscles began to be filled, and his whole habit of his body to be nourished, his appetite was good, and his Stomach did well digest. At last to strengthen his Bowels, and gently to provoke his expulsive faculty, which remained sluggish, every day he took half a dram of Rhubarb, made into a Bolus with a Syrup of Roman Wormwood. This Bolus he took for five days together. Afterwards he abstained from all Remedies, for as many days more. Afterwards to recover him out of his leanness, he used a bath of Barley and Almonds, which was repeated once every week. And when he had abstained a Month together from purging, he began to be tormented with pains in the Limbs, yet not very violent, which continuing many days, he sent for me again: And I told him the defluxion of Humors must be taken away by purging. He said, that his former pains, in the beginning of his Disease, were much encreased by purgation. Which was the reason, that I would not give him any vulgar purgation, but the foresaid pills he took, and they gently purged him, and his pains were taken quite away. He was perfectly cured of his Dropsie, but being very careless in his diet, and did eat ever and anon meats bad for him, he fell into a certain Ague, of which being by some Remedies cured, after fifteen days he fell into it again; and so he lived four or five Months, his tertian Ague Fits ever and anon returning, by his own extravagancies of diet; till at last he died, having nevertheless lived six Months before, even to his dying day, free from the Dropsie.

The 186 Observation or History of Famous and Rare Cures, &c.

A Gangrene caused by a Vesicatory.

IN the Month of August, 1642. the Daughter of Msr. Bon a Councillour of the Exchequer Court, being two years and an half old, troubled with a Malignant Feaver, was plied with sundry Remedies, and among the rest a vesicatory being appointed, the Apothecary made it of the common vesicatory Plaister of the shops, and to make it the stronger, sprinkled a great deal of powder of Cantharides upon it, whereupon the skin was burnt, and the day following, all the part covered with the vesicatory, appeared Gangrenated. For the Cure whereof, scarifications being made, it was fomented with *Aqua vita*, and then a Liniment applied, made of *Unguentum Egyptiacum* dissolved in *Aqua vita*. Within three days, the Eschar was separated, and the remaining Ulcer cured, with this following Oyntment.

Take the kidny-suet of an Oxe one ounce. Lytharge prepared, and *Minium* of each one scruple. Oyl of Roses, as much as will suffice. Make of all an Oyntment.

The 187 Observation or History of Famous and Rare Cures, &c.

Of a Malignant Feaver.

JOHN Richards a Citizen of Montpelier, having been afflicted with a Malignant Feaver, for six weeks together, was so extreemly weakned, that he seemed to be near his grave. I coming then first to him, and hearing that he had been little purged, all his Disease long, I conceived his strength was overpowred with the burthen of Humors, but so weak withal that he could hardly bear purging. Therefore I undertook to purge him by degrees, and prescribed him a potion of the Infusion of one scruple of Senna in Chichory water, and half a scruple of Cream of Tartar, adding one ounce of Roses: This potion he took for three days one after another, and had two stools every day, his strength was a little encreased; on the fourth day he took an ounce of Syrup of Roman Wormwood. On the fifth day I gave him the Infusion of a dram of Senna, which being continued for two days, he was gently purged to good purpose. Whereupon he began to be better, recovered by little and little, repeating his purgations at certain times. Some time after he fell into a relapse, and sent for no Physitian, till he was at last cast, and so he died. This one thing only is worthy of Note in this Observation; that a purging

ging Medicaments may be given in the greatest extremity of weakness, provided it be prescribed in a very small dose.

The 188 Observation or History of Famous and Rare Cures, &c.

A Loosness in a Boy.

THE Son of Msr. *Andeffan*, Councillour in the Court of Accounts, being four years old, was troubled with a long Loosness, want of Appetite, and weakness. The original of this Loosness was from bad Diet, for they crammed him with much meat, and sometimes gave him pure Wine to drink; whereby his Natural heat was so wasted, that his Nourishment was converted into crude and Flegmatick Excrements; for his stools were in a manner nothing but mere Flegm, when I first visited him; whereas before they had been Yellow, Green, Verdigrise coloured, and bloody, as I was informed. Having ordered his Diet, I prescribed him a Medicament of Syrup of Chichory with Rhubarb one ounce, and half a dram of Rhubarb to be taken three days together: after that, two spoonfuls of Tincture of Corals, to be taken morning and evening; within five days he was better, and the Remedies being continued, he recovered in a few days.

The 189 Observation or History of Famous and Rare Cures, &c.

Of a long Loosness, and stubborn Head-ach.

ON the 7. of *October*, 1642. I was called to *Lodova*, to Msr. *Fleury*, Treasurer of the Exchequer, fourscore years of Age, being troubled with a Loosness of two Months continuance, with which he voided many Wheyish and crude Excrements, but especially his Loosness troubled him in the Night, by which and other signs, it seemed that the influx of Humors was chiefly from his Brain. Moreover he was troubled with a cruel pain in his Head, on the left side thereof, from the Crown of his Head to his Ear and Temples on the same side, which pain when he lay upon the part affected, was manifestly pulsative. I setting my self to the Cure, in the first place, because of his Loosness, I prescribed him this potion.

Take Choice Rhubarb, one dram. Citrine Myrobalans, half a dram. Yellow Sanders, half a scruple; infuse them in Plantane water, and in the strained Liquor dissolve half a dram of Rhubarb powdered, Syrup of Roses, half an ounce: Make them into a potion. After the taking whereof he had three stools in the day time, and only two the Night after, whereas before he was wont to go to stool five or six times a Night.

The following day, the same Laxative potion was given him, adding the infusion of one dram of Senna. He had five or six stools in the day, and none at all in the Night, and so his loosness was quite cured.

On the third day to take away his long and pulling Head-ach, when many other Remedies had been tried in vain, I caused the Artery of his Temple to be opened, whereby three ounces of blood were taken away, and upon the Orifice was applied a Plaister of Frankincense, Mastick, Bole-Armenick, Hares Hair and the white of an Egg with good Ligature: And the same day, the pain was quite taken away.

The 190 Observation or History of Famous and Rare Cures, &c.

A Catarrh falling upon the Lungs.

ABout the End of *October*, 1642. I fell into a grievous Catarrh by being in the Sun, which falling upon my Lungs, made me short winded and wheeze. I was let blood, and then purged for two days together, with a laxative Ptisan, abstaining from Wine, and keeping a very

very slender Diet : By which means my wheezing ceased, and my shortness of breath was much abated. But there followed in their stead a very troublesome Cough, which having continued two days, in the morning I put a bit of Tobacco into my Mouth, having first lightly ground it with my Teeth, which when I had kept half an hour upon my Tongue, my Head began to be a little dizzy, and my Stomach somewhat sick, after which followed a small vomit of Wheyish matter, which had a bitter farewell with it. The Dizziness of my Head continued for two hours, and my Cough was stayed till Evening, when it began a little to trouble me by Fits. About Supper time, a pain rose in my Head with a certain heat, especially on the left side ; after Supper, which was plentiful enough, my Head-ach was much worse, and was accompanied with a troublesome Stomach-sickness, which having continued for an hour, and my Head-ach grew worse and worse, thrusting my finger down my throat I cast up all my Supper with much flegm, whereupon my Head-ach was abated, and soon after I betook me to my bed, where falling asleep, I past the Night quietly, and was the following day, quite freed from my Cough and Catarrh.

The 191 Observation or History of Famous and Rare Cures, &c.

An old Head-ach proceeding from the Venereal Pox ill Cured.

A Certain man infected with the *Lues Venerea* was cured by a Sudorifick Diet, and a Mercurial Oyntment, whereupon he seemed for a certain time cured ; but afterwards the same Disease returned again, and he again was cured with a Sudorifick Decoction, taken for some days together, and then with a fume of Cinnabar, so that the Cure seemed perfectly accomplished. Yet he began afterwards to be troubled with a grievous Head-ach, on the left side of his Head, which upon the change of Seasons, and especially at the beginning of Autumn, did grievously torment him, and remained like a Nail evermore fixed in the same place. And when he had tried many Evacuating, revelling, deriving, and Anodyne Medicaments in vain, he came to me. And I was of Opinion that this grievous Head-ach, was from the Relicks of *Lues Venerea* not perfectly cured. Yet that the next and immediate Cause thereof, or at least which fomented and encreased the pain was, besides the Venereal Venom, a sharp and biting Humor flowing to that part of the Head ; or the Mercury it self collected in that part, or a rottenness contracted in the Skull. Which two last Causes, though not frequent, yet do sometimes happen, as appears from many Histories reported by Authors.

Now that respect may be had to all these Causes, In the first place I prescribed an universal Evacuation, by blood-letting and Purgation, by Apozems for four days.

After that a Sudorifick Diet-drink, of a Decoction of *Gnajakum* and *Sarsaperilla*, for thirty, or forty days, respect being had to the temperament ; for if it be hotter than ordinary (for I could not see the man, only my advice was desired upon a Relation of the Case in writing, wherein the complexion of the Patient was not expressed) it may be corrected with bath and cooling Broths. For many times a *Lues Venerea* that could not be cured with Mercury, has been Cured by a long use of Decoctions. And if the Head-ach arise only from the Virulent Humors which Vellicate the Membranes, it may be cured only with a longer use of the Diet-drink.

And if that same Head-ach shall not give way to the Decoction long used, it must be considered if some Mercury be not collected in the part, which may be known by putting a little pellet made of Leafe Gold round up into his left Nostril as far as can be, and pulling it out after it had been in some time ; for if it come out Wheyish, 'tis a sign there is Mercury. The same may be experimented also, by covering a *Cephalick* Plaister with Leaves of Gold, and putting it upon the part pained ; for if the Gold turn white, 'tis a sign there is some Mercury in the part, which may be drawn forth by little and little, if a thin plate of Gold be continually worn upon the pained place, and a solid pellet of Gold be frequently thrust up into the Nose.

If this Remedy do not remove the pain, the part must be opened, the Scull being boared with a Trepan. For many times the Scull is gnawn by sharp and Virulent Humors, and it is corrupted, the Skin remaining entire. And although the rottenness appear not, yet the Trepan does many times help by bringing forth a Virulent matter, which is collected upon the Coats of the Brain.

The 192 Observation or History of Famous and Rare Cures, &c.

A Pleurisie.

THE Daughter of Msr. Divoul, a Citizen of *Montpelier*, of a Sanguine Complexion, twenty years of Age, was troubled with a grievous Pleurisie of her left side, in the beginning of *March*, 1643. On the second day of her Disease, a vein was opened on the same side, and eight ounces of blood drawn away. The day following when the Chyrurgeon would have let her blood again, he could not find the Vein; because the Virgin was very fat, and the Vein lay buried in the depth of her Arm, so that because the Vein appeared better in her right Arm, he was forced to open the same, and drew thereout eight ounces of blood. Nevertheless, this blood-letting did no good. Seeing therefore the Pleurisie was very urgent, they sent for me, and when I saw there was great need to let her blood again; because she was almost choaked, and had a very high Fever; I caused them to send for other Chyrurgeons, that one or other of them might open the Vein; having therefore sent for one of the Skilfullest, advised him if he could open the Vein, he should make a large Orifice and take away good store of blood at once, seeing it was so hard a matter to repeat Phlebotomy in this Patient. He did as I willed him, and took away fourteen ounces of blood, whereby the Patient was much eased, and not at all weakned. Four or five hours after, blood was again let to ten ounces. Which she easily bore, and the day following was perfectly freed from her Pleurisie and Fever.

The 193 Observation or History of Famous and Rare Cures, &c.

Of a falling-sickness

THE Son of Msr. Roche a Citizen of *Montpelier*, being twelve years old, was for some moneths troubled with Fits of the Falling-sickness; which came at first, only once a week, and afterwards every day. He was purged once or twice, also let blood, and had an Issue in his Arm many years. Being sent for, I prescribed him an Apozem of Cephalick, and Specificall Remedies against the Epilepsie, with purgatives for four doses. Then an Issue was made in his Coronal Suture, and with these two Remedies he was freed from his Disease.

This Boy was of an hot and Chollerick Constitution, and very ready in his Actions, which bred a Conjecture, that this Disease did arise from filthy Vapors, which by this Emissary might be discussed.

The 194 Observation or History of Famous and Rare Cures, &c.

A Dropsie.

THE Daughter of Msr. Patris, Counsellour in the Court *Præsidiary*, six years old, and sick of a Dropsie, was cured with these following Remedies, in the Month of *March*, the year 1643.

First a Clyster was administred, which was thus made.

Take Pulp of *Coloquintida*, one dram; coarse Bran an handful; boyl them in white Wine to nine ounces, make a Clyster; which brought away Flegmatick and Wheyish Excrements without

without trouble, and was continued for three days. At the same time there was applied to her whole Belly a Cataplasm of the roots of wild Cucumers, made with Cummin-seed and Honey, the description whereof you may have in my Practice of Physick. Now when her belly began to assuage, and she would not take internal Remedies, the Clyster was repeated three or four times, every other day, and the Cataplasm continued. From whence followed a greater diminution of her belly. At last I prescribed her a purging powder of Senna, Turbith, and other things, the description whereof is in my Practice, whose dose was one dram, and she was therewith but little purged, seeing she vomited up the Medicament; and her Belly did yet appear swollen. Afterwards I prescribed her Juleps of Aperitive Roots and Herbs, with Salt of Diuretick Spirit, four doses, with the use whereof she made greater quantity of Urine, but her belly continued yet swollen. Afterwards I appointed her a powder of Calomelanos of Turquetus twelve grains, Scammony eight grains, and Fallap fifteen grains. Which she took in broth and was seven times purged, and voided much Wheyish Humor and Flegm by stool, whereby the swelling of her Belly was half in half abated, in the space of twenty four hours. The aforesaid Julep was repeated for three days; and the fourth day she took the aforesaid powder again with the same success; and when her Belly was very much fallen, so that she began to get out of her Bed, and to have a good Stomach to her Meat, she took no more Physick, and so by little and little perfectly recovered.

The 195 Observation or History of Famous and Rare Cures, &c.

Venereal Pox in a little Boy.

A Little Boy thirty Months old, being sick of the Venereal Pox, with a filthy Scab all over his body which he had caught of his Nurse, was cured with these following Remedies.

Take Shavings of Lignum Guajacum two ounces. Fountain water two pound. Infuse them twenty four hours, then boyl them till a third part be consumed. Take three ounces of the strained Liquor and give it the Child in the morning two hours before meat, covering his body a little warmer than ordinary, and continue this course twenty days.

Take Scammony powdered six grains; Calomelanos five grains. Mix them into a very fine powder, and give it him in a spoonful or two of Sugared Panada, and let him drink a little broth after it. Continue this Remedy every fifth day, encreasing the dose of both the Medicaments according to their operation.

Take the water of the foresaid Decoction, Fountain water three pints, make hereof a Diet-drink for his ordinary drink, adding Sugar and Liquoris as much as shall suffice for to gratifie the Palate. These Remedies being continued for a month together, he was well recovered.

The 196 Observation or History of Famous and Rare Cures, &c.

An Imposthume by the Back-bone.

Since the time that I have practised Physick, it has been my hap to see five Imposthumes upon the Back near the Back-bone, which were bred of a cold matter, collected by little and little without pain or Inflammation, and the colour of the part being no wayes changed. The Tumors were soft, like an Oedema, as big commonly as a mans fist. Howbeit, when they were opened, laudable matter flowed out of them. The three first killed the Patients, in the space of three or four Months, When as the Ulcer remaining after the Imposthume opened, became very hallow and winding, and a greater quantity of Quittor came thereout every day; whereupon the whole body was exhausted, and turned into an Atrophia, though the cure of the Ulcers was by many Remedies endeavoured. The fourth was cured by great incisions made in the back. By which all the Cavities were laid open; and afterward with Fomentations of *Aqua Catapularum*, and other Topicks, the Ulcers were cured, and in the mean time the antecedent Cause was

was provided against by frequent evacuations, and the use of a sweating decoction. Finally, the filth was cured without incision, only it was laid wide open with a potential cautery, and then the Ulcer was cleansed with injections of the Decoction *Catapultarum*, and a Fomentation of the same, and by a strong compression of the Part, with Swathbands and Bolsters; and by continual application of very astringent Medicaments round about the Ulcer. And in the mean while the antecedent cause was provided against, with the foresaid Remedies.

The 197 Observation or History of Famous and Rare Cures, &c.

A Dropsie in a Boy seven years old.

THe Son of M^r. Saget, a Citizen of Montpelier, was troubled with grievous obstructions, whereby his belly was mightily swelled, so that he was now become Hydropical. Being called to him the 28 of April 1642. I prescribed these following Remedies.

Take Senna cleansed two drams; Annis-seed and Cream of Tartar, of each one dram; Roman Wormwood one pugil. Boyl them to two ounces, in the strained Liquor dissolve of the Electuary of Diacarthamum one dram and an half; Syrup of Roses half an ounce: Make all into a Potion. Let him take it in the morning and be ordered accordingly.

Take Roots of Smallage, Parsly and Asparagus, of each one ounce. Leaves of Agrimony, Maiden-hair, Ceterach and Hyssop, of each half an handful; Polypody of the Oak, and Carthamus-seeds, of each two drams. Seeds of Smallage and Parsley, of each one dram; Cream of Tartar two scruples. Boyl them with the fourth part of an old Cock, in the strained Liquor dissolve Salt of Wormwood and Tamarisk, of each one scruple. Make a Broth, of which let him take every morning for twelve days.

In every dose of Broth infuse two drams of Senna all night. Let him take it, and be ordered accordingly.

Take Oyl of Capers and Tamarisk, of each two ounces; Juyce of Dwarf-elder and wild Cucumers, of each one ounce and an half; Boyl them to a Consumption of the Juyces: In the strained Liquor dissolve seeds of Agnus Castus, and Parsley of Macedon finely powdered, of each half a dram; Oyl of Nutmegs half an ounce. Wax as much as shall suffice to make a Liniment. Let his Belly be there-with smeared hot, as he goes into his bed.

Let him use for his ordinary drink an infusion of steel and Rhubarb, in manner of a diet-drink.

With these Remedies the swelling of his belly was lessened, but not quite taken away, therefore I was fain to proceed to these Medicines following, which in three weeks space, quite cured the Disease.

Take Conserve of the flowers of Tamarisk and Maiden-hair, of each one ounce and an half. Confectio Alkermes three drams, Salt of Wormwood and Tamarisk, of each one dram; Ivory powdered and Diarrhodon Abbatis, of each two scruples; with Syrup of Maiden-hair, make all into an Opiate, of which let him take the quantity of a Chest-Nut every morning two hours before meat, and drink after it a little Wine tempered with water.

Take Calomelanos eight grains, Diagridium seven grains, two Leaves of Gold: Make all into a powder: and give it to him once a week with two spoonfuls of Sugared Panada, and let him drink a little broth after it.

The 198. Observation or History of Famous and Rare Cures, &c.

A Bastard Palsie.

AN honest Woman of Aix, about fifty years old, having suffered abortion, and living yet by it, was at first troubled With a nummedness about her Belly, which she easly perceived by putting her hand upon her Belly. After the abortion some months, she proved with Child, and during the course of her Impregnation, the said nummedness seized upon her Thighs and Legs, and a far worse Symptom was added thereto, viz. an inability to stir them.

After she was brought to bed, many purging and sweating Medicines were used, and many other heating and drying Remedies, without any effect. So that she had been now two years troubled

troubled with this grievous Infirmary. In the parts aforesaid, the sense of feeling was not quite taken away, but not only impaired, but all motion was quite lost. Yet there is one thing peculiar and very well worth observation; That when her Legs were drawn forth by her Servants, or were any other waies stirred, presently they became stiff and convulsed, in the manner of a Tetanus. To which is added a certain Convulsive motion like that of persons which have the falling-sickness, which is wont also frequently to take her of it self by fits. And when she is taken with these Symptoms, she perceives a kind of motion in her *Hypochondria*, moreover she is frequently afflicted with wandering pains, possessing divers parts, but especially her Chest; so that sometimes the fore-part, other whiles the hinder-part: Now the right, anon the left part of her Chest, is vexed with these running pains. This is the History of the Disease, related by the Patient her self, who returning from the bathes which he had used in vain, desired my advice the fourth of July 1643.

I could indeed have wished, that the Disease had been more exactly described, by those skillful Physicians who had her under Cure, to the end that the nature of so most intricate and difficult a Disease might be better known, and the Cure more solidly undertaken, by a diligent meditation upon all the Circumstances thereof. Yet shall I not forbear, (to satisfy the desire of the Patient) to shew my opinion, submitting the same to the Judgment of those most expert Physicians, who are able to observe all the particularities of the Disease, and perfectly to see into the nature thereof.

I conceive therefore, that this Disease is no true Palsie arising from a flegmatick Humor, loosning and resolving the Nerves; but that it is rather a mixt Disease consisting partly of a bastard palsie, and partly of a Convulsion. Now these bastard Palsies, compounded with distensions and Convulsions of the Nerves, are in those inferior parts often produced by cholerick, melancholick, or Wheyish Humors contained in the *Hypochondria*, or other parts of the lower belly, and translated into the back-bone; from which seeing the Nerves arise, which bring motion and sense into the parts, as also into the Muscles and skin of the belly, it is no wonder, that the animal actions of those parts are very much hurt. This may be confirmed by a larger discourse, the Judgment of Authors, and by experience, but unto such learned men it may suffice, to declare a few things, which make this conjecture of mine sufficiently probable.

In the first place therefore it must be taken as a certain and unquestionable truth; that all privation of sense and motion does not draw its original from the flegmatick Humor; but that it proceeds sometimes from an hot and dry distemper, and Humors following with such constitution. This may be confirmed by the opinion of *Trallianus* alone, who in the 16. Chap of his 1. Book, alledges such a Cause, and confirms it with a clear example in these words.

I knew, truly, a man that was palsied through sorrow, much care and fasting, and having taken Hiera picra he became so bad, that he could not stir at all, and was near to death, unless he had been altered to the contrary, both with all kind of moistening things and potions, and meats, and other things that might reduce him to the right temper, especially with baths and frequent anointings with water and Oyl, with mutation of the Air to a temperate kind, and to use all kind of cheerfulness.

A story not much unlike to this may be seen in *Forestus* his 97 observation of his 10. Book, of a Certain young man who being deprived of motion from his Thighs to his feet, with an extenuation and non-nutrition of the said parts, and growing continually worse and worse by the use of hot and dry Medicaments prescribed by other Physicians, at last he was cured by *Forestus*, only with moistening Medicaments, which were partly taken in, and partly applied externally.

Moreover it is a thing long since observed amongst Practitioners, that there is a cholerick Cholick, which does frequently degenerate into a Palsie, and that such a Palsie springs from choler no man doubts.

And finally, That from a melancholick and wheyish Humor, Symptoms are produced very like the Palsie and Convulsion, is every where related by such Authors as have written of the Scurvy and the Hypochondriacal Disease, as you may see in *Sennertus*, where he explains the Symptoms of the foresaid Diseases, in his Book of the Scurvy, and of the Hypochondriacal Disease. Now that those Impairments of sense and motion which afflict this honest Woman, do proceed from adust and hot Humors, we may in the first place conjecture from such things as help and hurt; for seeing she received no good by heating and drying Medicaments, but was al-

waies

ways worse after them, it follows that they were no ways contrary to the Disease. And this was the only way whereby *Trallianus* and *Forestus*, in the foresaid Histories came to the Knowledge of a Palsie proceeding from an hot and dry distemper.

Secondly, That this Patient has a dry distemper, may be hence collected, in the Causticks applied to divers parts, and Issues made thereby afforded very little Humor, and were quickly dried up.

Thirdly, Palsies which proceed from flegm, draw their original from the Brain, as the Fountain of that Humor; and those parts which are near the Head, are commonly first and most of all hurt. Whereas in the Patient, there are no signs of any Humor flowing from the Head, nor is there any hurt in her upper parts, so that her Arms, Hands, and other upper parts do perfectly performe their Actions.

Fourthly, the first Insult of the Disease did cause a dulness of the sence of feeling in her belly, and the Muscles of the Abdomen, which shews that the Nerves which spring out of the backbone, through the Vertebrae of the Loynes were first hurt; and that afterwards the Disease was propagated to the Nerves which arise from *Os Sacrum*, and creep along to the thighs, and leggs. Whence may be gathered, that Humor offending was transferred from the parts contained in the lower belly unto those Nerves, just as in a Palsie following after the cholick, such a like translation is wont to happen.

Fifthly, pains afflicting divers parts, especially about the breast, and those so fitting, do argue that sharp and biting vapors are carried from the *Hypochondria* into those parts as like pains in such as are troubled with Hypochondriacal Melancholy, do most frequently happen.

Sixtly, as often as this Patients feet and Leggs are stirred, a stretching and trembling Motion does presently arise, which argues that the matter impacted into the Nerves is thin and movable, and consequently put into agitation by the least stirring, by what means causing tensions and vibrations of the Nerves.

Seventhly, when the Convulsions seize upon this Woman, a certain motion goes before in her Bowels, which she plainly perceives; which motion proceeds from the foresaid matter, beginning to work and stir it self, or from vapors raised out of the said matter by its commotion; as in a Sympathetick Epilepsie, arising from the inferior parts, such Commotions are perceived in the Belly, when the Fit is about to come.

Finally, this Disease began to shew it self after the Patient had miscarried, and took its increase during the time of her afterwards being with Child; which signifies that bad Humor collected in the Veins of the Womb, not sufficiently voided by the monthly purgations, did fall into those nervy parts, and did at last cause the Impediments of Sence and Motion.

These things thus laid down, Let us come to the Cure, which must be directed to these Indications, *viz.* That the hot and dry distemper of her Bowels be corrected; that the Melancholick and burnt Humors (which I make to be the chief cause of these Symptoms) be prepared and evacuated, the obstructed passages be opened, and the chief Bowels producing these Humors be strengthened. I shall briefly propound such materials as are fit to satisfy these Indications, and those the choicest, premising this Prognostick, That Diseases proceeding from Melancholy, are of all others most hard to cure, and if they seize upon the Nerves, they are yet harder to cure; and confirmed old Diseases of the Nerves are incurable; whence it follows, that this case propounded is hardly vanquishable by Remedies, and that there is little hope of Cure. I advise nevertheless that this Cure should be undertaken, seeing many things daily fall out besides hope, and many Diseases are cured, which were accounted desperate.

In the first place therefore, her Diet must be of meats of good juyce and easie digestion, somewhat cooling, and very moistening. Of which kind are the flesh of young beasts, and new soft Eggs, as the principal. The other particularities of her Diet, are left to the prescription of her ordinary Physitians.

The rest of the Cure must be begun with the laxative Clyster, after which must follow the next day, blood-letting in her left Arm to eight ounces. And if the blood be corrupt, or infected with any bad quality, she must be let blood again the next day, out of her other Arm in like quantity. After bleeding let her fall to the use of these following brothes.

Take Roots of Bugloss and Asparagus, of each one ounce; Leaves of Agrimony, Ceterach, Maiden-hair and Cichory, of each one handfull. Boyl them in Cock-broth, and dissolve therein one dram of Cream of Tartar. Let her take hereof for twelve days together.

In every fourth broth infuse all night three drams of Senna, one dram of Annis-seed, in the strained liquor dissolve an ounce and half of choice Manna. Let her take it and be ordered accordingly.

Her broths being ended, let her use a bath to sit in Luke-warm, of a decoction of Barley and Sweet-Almonds: let her sit in twice a day, or three days together, far from Meal-times.

The day after her last use of the Baths, let the Vein of her left Ankle be opened, and take away six ounces of blood.

Afterwards let her drink the Whey of Goats-Milk for fifteen or sixteen days, taking at first one Cup, afterwards two or three, as her stomach can bear, for the more she shall drink, the more good it will do her. Now the Whey must be made presently before she takes it, of Milk newly milked, by boiling the same one walm; and as soon as it begins to boyl, thereinto sprinkling a little quantity of Juycce of Lemons or Vinegar, and presently removing it from the fire, for presently the Whey will be separated from the Cheesie substance, which is made exceeding clear by straining and clarifying the same with the white of an Egg; and may be drunk in great quantity without offending the Stomach, so that it is by many drunk after the rate of Mineral waters, with great profit.

Every fourth or fifth day let two ounces of Manna be dissolved in her first Cup of Whey.

During the rest of the Summer, let the Bath to sit in be repeated, once or twice in a week, that her Hypochondria may be moistned, and the Acrimony of the offensive humor tempered.

If she be not of her self loof-bellied, let her take a Clyster every other day.

Take Conserve of Eglantine berries four ounces: Conserve of the Flowers of Borrage, Violets and Tamarisks, of each two ounces: Conserve of the Roots of Elicampane and Citron peels preserved, of each half an ounce. Ivory shavings two drams: Salt of Wormwood and Tamarisk, of each one dram and half; Two preserved Myrobalans, Confectio Alkermes half an ounce, with Syrup of Maiden-hair make an Opiate, of which let her take the quantity of a Chestnut every morning, two hours before meat, and drink a little Wine allayed with Water after it.

And because the Disease is very stubborn and cannot be vanquished, unless by Remedies very long continued; in Autumn the cure must be begun again, beginning with a Clyster, then letting blood, after which the following Apozem shall be used twelve dayes together.

Take Roots of Asparagus, Butchers-broom and Bugloss, of each one ounce. Roots of Enulacampane, bark of Caper Roots, middle Rind of the Ash and Tamerisk, of each half an ounce: Leaves of Agrimony, Borrage, Burnet, Cichory, Ceterach, Maiden-hair, of each one handful: Fragrant Apples, ripe and cut into bits, number two. Flowers of Borrage, Violets and Tamarisk, of each one pugil. Boyl them to a pint for three doses, adding to each dose one dram of Chrystal of Tartar, Salt of Wormwood and Tamarisk, of each one scruple, Syrup of Maiden-hair, an ounce: Let her take it for twelve days, in the morning three hours before meat, renewing the decoction every third day.

In every fourth dose, infuse all night three drams of Senna; Annis-seed one dram. In strained liquor dissolve two ounces of choice Manna. Let her take it and order her self accordingly.

After the Apozems, let her again use the Bath to sit in according to the foresaid directions.

The day after her last use of the Bath, let her Fundament be chafed with a course Cloath, and fasten two Horse Leeches, to those parts that swell most, and draw away five or six ounces of blood.

The next day make Issues in both her Legs on the inner side, and keep them open a long time.

Take of Juyces newly pressed forth, and clarified over a gentle fire, of Borrage, Bugloss, Fumitory, Cichory and Endive three pints. Juycce of fragrant Apples newly pressed out and clarified two pounds. Senna six ounces, Epithimum three ounces, Agarick newly trochisked and choyce Rhubarb, of each one ounce and a half: Mace and Cloves of each one dram. Infuse them and boyl them according to Art, till there remain fifteen ounces: And therein dissolve fifteen ounces of Sugar. Make all into a Syrup perfectly boyled, of which let her take two ounces twice or thrice in a moneth in Chicken broth boyled with Leaves of Borrage, Bugloss, Agrimony and Pimpernel.

Let her continue the use of the foresaid Oplate on all such days, as are free from the use of the other medicaments.

The 199 Observation or History of Famous and Rare Cures, &c.

Vomiting in a Malignant Fever.

THE Chamber-maid of Madam *de Rozeb*, called *Laprune*, being sick of a Malignant Fever, on the tenth day of the Disease, was taken with such a troublesome vomiting, that she cast up all her broths and drink; and when she had been three dayes troubled in that manner, the Physitian that had care of her, by my advice gave her one scruple of Salt of Wormwood, with a spoonful of Juyce of Lemons: and her vomiting was suddenly stopt, and afterwards she kept all that ever she took. Three days after, the same vomiting returned, and was cured by the same Medicines.

Some dayes after, the same Medicament was by the same Physitian given to two Children, troubled with the same Symptom, and it cured them.

The 200 Observation or History of Famous and Rare Cures, &c.

A false Conception.

A Woman of *Giniaca*, forty five years old, came to *Montpelier*, to ask advice concerning a Disease she had. She told us, that being never married, she had to do with a young man by whom she conceived, and thereupon lost her Stomach, was pale all her body over, longed for certain meats, with other signs of being with Child.

Forty dayes after her Conception, she perceived a kind of Palpitation about her right Hypochondrium, and from that time she began to be better, and her Appetite was restored. Her Belly grew daily bigger, her Dugs did swell, and at last Milk began to breed in them, *viz.* In the fourth month in her left Dug, and that was reddish, and afterwards there came Milk into her right Dug, which was white.

In the fourth month she had her Courses plentifully three dayes together, whereupon the swelling of her belly abated. But it began afterwards by little and little to rise again. Her Courses came every month, as they used before she conceived. She perceived a motion in her Belly, like that in an Infant in the Womb.

The ninth month she had the pains of a Woman in Travel, so that the Midwife was sent for, and all the by-standers looked when she should be delivered. Howbeit those pains ceased after twenty four hours, and nothing came from her.

From that time her Courses have come ordinarily, untill the thirteenth month, wherein she again suffered the pains of Child-birth without any effect. And after that her Courses came no more, the bigness of her Belly continued, with motions at times, as it were of a live Child. And now thirty two months are past since the time she first conceived, neither is the swelling of her belly exceeding great, for it hardly equals that of a Woman six months gone with Child. Two risings appear sensibly distinct, so that a space appears between them: which Tumors encline to her Hypochondria, when the Woman lies. But when she is upright, they resemble the true form of a Woman with Child, being in the middle of her Belly: being compressed they give place, and then return again. They are often moved with a motion of their own like a Child in the Womb.

The swelling of her breasts is long since gone, and they are very soft and flabby, out of which very little drops of green Milk were pressed forth.

All the time of her being great, she kept her self shut up in the House, tormenting her self with grief and fastings, because she had conceived out of the lawful state of Wedlock.

This is a most Rare Case, and involved with most intricate Labyrinths of difficulties; out of which notwithstanding we shall endeavour to free our selves by the thred of Reason and Conjecture.

And first, That it is a true Conception, may be argued from her loss of Appetite, the milk in her Breasts, and the motion of the Child it self, to which nothing seems wanting except the ordinary time of bringing forth: which some may say was therefore retarded in the woman, because long fastings, and the flux in her Courses had defrauded the Child of its due Nourishment, whereby the Child could not so soon grow to perfection, and thereupon did stay longer than ordinary in the Womb. Howbeit, it is agreed upon by Physitians, Philosophers and Lawyers, by whom this controversie has been oft disputed, That the last term of a Childs being in the Womb cannot be extended beyond the Eleventh Moneth. Nor let any man say, That between the natural and ordinary time of bringing forth, some rare and extraordinary Cases may happen; as we have with us a late History of Madam *de Cardet*, who affirmed, That she bore a Child in her Womb first fifteen Moneths, afterwards a year, two, and three: Of which matter are extant two Counsels one contrary to another, of very Learned Men, *Hucherus* and *Varandæus* on the one part, and *Saporta* with *Pradilleus* on the other. Also in *Schenkjus* certain Histories are propounded, of Infants born two years in the Womb, who began to speak and go as soon as they were born. For I avouch, That these are no Histories but Fables; which is easie to confirm by reading them: For as for what Concerns Madam *de Cardet*, by Reasons propounded by *Saporta* and *Pradilleus*, in their Counsel, it is abundantly proved that she was Melancholick, and disturbed in her Imagination; which not only her frequent Belchings, Palpitations of Heart, Vapors rising to her Head and Face, and other things did witness, but especially in that she her self said, That she heard the Child cry in her Womb; which any Novice of Physick knows to be an impossible thing. And those things which hapned since that time, sufficiently shew that her Mind was disturbed. For the same Lady, being yet alive, sayes she has been with Child now two and twenty years: Which Assertion of her, takes all the Credit away from her other Speeches. But the Histories collected by *Schenkjus*, are thereby convinced of Falsity, in that they affirm Children new born, to have begun presently to speak; but every man knows that to speak comes by discipline and teaching. As true as the rest, is that which *Avicenna* sayes, was told him by a faithful Woman; for he professes himself only an Ear, not an Eye-witness. Seeing therefore it does not appear by any true story that such Cases have happened, and in this Case of ours the Conception moved about the fortieth day, whereas a true Child stirs not till the third or fourth Moneth; it is better to affirm, that this Woman of ours had no true Child in her Womb. For fasting and menstrual Purgations are so far from retarding the Child, that they rather hasten the same, as *Hypocrates* tells us, That a Woman with Child, by Blood-letting, comes to miscarry. We must therefore say, that there was in the Womb of this Woman somewhat preternatural, viz. Either Water, Wind, a Mole or a Monster. That it was Water, no man will say; that it was Wind, we have no more reason to think; for it many times falls out, that Wind shut up in the Womb, makes a motion like that of an Infant, and does a long time counterfeit a true being with Child. But that this was not Wind, two things evince; one, that it could not be so long kept in the Womb, but it would have been at one time or another either evacuated or dissipated; The other, That the Milk in her Dugs did witness something greater than Wind to be in her Womb. Now the safest way is to say that it was a Mole; both because the frequency of Moles makes it no wonder: and also because the signs propounded do seem to answer very well to a Mole, viz. A panting Motion at the fortieth day; Raw milk in the Dugs; Flux of Courses in time of Gravitation; Also the milk vanishing after the Ninth Moneth, and the falling of her Duggs; To which may be added, the hardness of the Tumor of her Belly, which by pressing changed its place, and then returned again. And although *Hypocrates* sayes in his first Book *de Morbis Mulierum*, that the Conception of a Mole does not bring milk into the Dugs; That is to be understood of true and perfect milk, and not of crude and fleshy; which is usually seen in such Cases. And because two distinct Tumors were felt, tis likely there were Moles in her Womb.

A man might be indeed satisfied with what has been said, unless some thing stood in the way;

way from whence the extraordinary difficulty at first expressed does arise. For in the first place, according to the Doctrine of *Hypocrates*, a Mole has no motion of its own, but is only moved by the Wombs motion; and if any motion appear to such as feel the same, it is only a panting motion. But in this Woman a great motion is perceived, very like the motions of a true Child, which is easily discerned by the by-standers. Secondly, a Mole tumbles from one side to another, like a stone, with a sense of weight and heaviness; in this Woman there was no such thing. Thirdly, in a Mole the Belly is widened equally in all dimensions, whereas in a true Child, it is raised up towards the Navil, and straitened on both sides, such as is the Belly of this Woman. Fourthly, a Mole sinks towards the Share and Groyns; in this Woman the Tumor is in her *Hypochondria*. Finally, a Mole is continually encreased, and in the space of near upon three years it would have attained an huge Bulk. But in this case, the Tumor of the Belly is very little, resembling that of a Woman five or six Moneths gone with Child; nor is it grown any bigger in a long time. In the concurrence of so many difficulties, though I thought better to insist upon the generation of a Mole, as a thing more frequent, yet we should better satisfy all the *Phenomena*, if we durst to say, that some Monster lies lurking in the Womb of this Woman, which being grown to its determinate magnitude, does encrease no more, but is only nourished like a Child, whence it comes to pass, that neither the Womb is more widened, nor does the Conception die for want of Nourishment. For so Histories tell us, That some Women hath brought forth Serpents, Moles, Frogs, Mice, Birds and other Animals. Yea verily, and in *Apulia* and *Lombardie*, many Authors relate, That such Animals are frequently bred in Women, and therefore those kind of Animals are termed the *Lombards Brethren*: *Gardonius Tornamira*, and other barbarous Physitians term them *Arpa* or *Arpia*, because this kind of Monster has for the most part many feet, which in that Barbarous Language they term *Arpas*. This being, I say, supposed, we may satisfy all the *Phenomena*. For at the beginning of such a gravitation, all the true signs of a Woman with Child might appear, *viz.* Milk in the Dugs; a motion like that of a true Infant, which might appear on the fortieth day, because such a kind of Creature as we speak of, might be sooner shaped than a true Child; moreover, the Animal being perfected, the Belly encreases no more; yet it provokes not nature to expel it, because it lives only by transpiration, and is nourished by the warmth of the Womb. Now that there are two of these Animals, may be conjectured, because two distinct bodies are felt in the Womb. Through such conjectures as these, the Mind may rove at uncertainties, till the exclusion of the Conception (what ever it be) shall make it visible to the Eye-sight. Which exclusion (which is all I shall say of the Cure) I would not further by Art, lest the Woman should come in some hazard of her life; but it is best to wait so long, till either Nature of her own accord cast off the burthen, or that her Belly swell yet bigger, which notwithstanding I must avouch, from the Foundations before laid down, will never be. Some years after it was told me that this Woman was delivered; but how, or of what, I could never fish out, because she studiously concealed the same.

It will not a little conduce to the Illustration of this story, to relate another Case told me by an ancient Midwife touching a Woman of *Montpelier*; who first of all mist her Courses, afterward lost her Appetite, and fell to long for some certain Meats; but she specially desired to eat Oysters and such like shell-Fish, wherewith she could never be satisfied. After the second month of her being great, she perceived the Conception stir in her Womb, and so it continued the following days and Moneths; which nevertheless appeared strange to her and other Women, seeing a Child in the Womb is not used to stir before the third month. After the seventh Moneth milk appeared in her Dugs, but of a bad greenish colour. Her delivery was delayed to the end of the Tenth Moneth. At what time having her pains upon her, she sent for the Midwife, and continued in those pains for three whole days together. And herein her pains were different from the ordinary pains of Women in Travel, because she said she felt her Belly to be prickt and cut, and her Womb to be torn. And so fierce was that pricking pain, that she was compelled to cry out exceedingly. At last after many throwes, she brought forth a certain Animal or Monster, not unlike a Toad, but it had more than twenty feet round about his body. Being received out of the Womans Womb into the Midwives lap, it skipt from thence into the Floor, and ran a good pace, and at last got under the Bed; whence being drawn, it was suddenly carried away and buried in the Wine-Cellar, to cover the Womens reproach. It had

at the end of its Feet sharp claws, whence doubtless those pricking and cutting pains did proceed, which the Childing Woman felt. For the Membranes being broken which contained the Animal in the time of Gestation; it in seeking its way out, did tear the inner Membrane of the Womb with its Nails, and caused those extream pains. Although these kind of Monsters have sundry forms and figures, because they are bred by Chance and Fortune, and the Mistake of Nature, yet those which are frequently bred in *Apulea*, and are termed the *Lombards Brethren*, do for the most part come near this now described, as may be seen in the relation of those Authors that have written thereof.

THE



THE
THIRD BOOK
 OF THE
 Medicinal Observations,
And Remarkable Cures of
LAZARUS RIVERIUS,
Councillour and Physitian to the King, and Professor
of Physick in the University of MONTPELIER.

The 201 Observation or History of Famous and Rare Cures, &c.

Inflammation of the left Testicle.

MSr. B. a Merchant of *Montpelier*, having contracted a *Gonorrhœa* by lying with a pollouted Bed-fellow, advised with a Chiurgeon, who let him blood in the Foot, gave him a Bolus of *Cassia*, and the day following a Bolus of Turpentine, and other Remedies afterwards, wherewith the *Gonorrhœa* was stopped; whereupon the influent matter being translated another way, a swelling and inflammation arose in one of his stones, so that in two days 'twas grown as great as a Man's Fist. At last he came to me on the 8. of *July*, 1643. I caused him to bleed again in his Foot, I prescribed him Emulsions, and a Cataplasim of Bean-meal boyled in Water and Vinegar mingled together. These Remedies being used two days together did no good, the Tumor and pain of his Testicle continuing not without a Feaver. I desired to see the Cataplasim, which the Chiurgeon had made too hard, and therefore it did not allay the Inflammation for want of Vinegar, and it did heat the part, by reason of its over great solidity. I ordered him to be let blood in his Arm, and his Testicle to be fomented with Rose-Water, and the same Cataplasim to be repeated with equal parts of Water and Vinegar, and that he should use the Emulsions again made of a cooling Decoction; all which were made by the Apothecary according to Art: The next day he was better, his Feaver and Inflammation were abated, the Tumor remaining in the same condition as formerly. I prescribed him a Purgation of *Senna*, *Rhubarb*, *Manna*, and Syrup of *Roses*; he was well purged, the Feaver quite gone, and the Inflammation much abated; but his Testicle did continue swelled. He was again let blood in his Arm, and a Cataplasim made of Bean-Meal boyled in pure Vinegar applied. The Tumor was thereby much abated, but the sharp-
 ness

ness of the Vinegar did make his Cods smart; to remedy that, I caused the Vinegar to be first boyled with Litharge, for so the sharpness of the Vinegar is quite taken away; and therewith a Cataplasim was again made with Bean-meal; it proved very well, and within four or five days the Tumor was so abated, that the Testicle affected was hardly bigger than that which was well.

The 202 Observation or History of Famous and Rare Cures, &c.

A Dysentery.

MAdam Luquissa, Sister to the Baron de la Roquette, was taken with a grievous Dysentery the 14. day of July, 1634. the Weather being extream hot; I was called to her on the third day of her Disease, I prescribed her a detergent Clyster, and to be let blood.

On the fourth day she was purged with one dram and a half of Rhubarb, and half a dram of Myrobalans infused in Plantane Water, dissolving therein one scruple of Powder of Rhubarb, and one ounce of Syrup of Roses. She had two stools of Excrementitious humours: but in her other stools which were many, she voided a snotty kind of matter drenched in blood. At night I gave her two grains of my Laudanum, whereby her gripings were somewhat abated, and her stools were not so frequent, also by short fits she slept a little, whereas in the foregoing Nights she had not slept at all.

On the fifth day, her gripings were the same, her stools frequent and bloody, Clysters of Milk and Yelks of Eggs were frequently administred. In the Evening she took again three grains of Laudanum with Conserve of Roses, and her pains presently ceased, and she went to stool only once in an hour, and slept between whiles.

On the sixth day in the morning her stools were yet more frequent, with extream pains. She was again let blood, and three hours after she took Broth of a Wethers Guts, with a dram of the powder of *Aëtes* Berries. Her pains were quite abated and gone, and her stools were much seldomer, but presently after blood-letting, her whole Belly was anointed with a mixture of Oyl of Roses, Vinegar and Rose-water, to allay the Inflammation of her Guts, which was known by the Fever, and because any light touch upon her Belly was painful; and with this Remedy she was much eased. In the Evening a Clyster was given her of Milk and three ounces of Juyce of Plantane, to assuage the Inflammation of her Guts aforesaid; for I conceived that it was a matter of very great moment, in so extream hot and fouldry Weather, to direct the Cure chiefly to the asswaging of the Inflammation of those parts, because the greatest danger uses to spring there-from: for commonly those that die of a Dysentery are brought to their end by a Gangrene of the Guts, which is easily caused by the continual flowing in of bad humours into the parts inflamed and ulcerated. Also at night I gave her a Julep of Plantane Water, with a dram of the powder of *Aëtes* Berries. All night long she slept not, and went frequently to stool, but without pain.

The seventh day, the frequency of her stools continued, but without pain; her Clysters continued.

On the eighth day she took a dram of Rhubarb powdered in Broth, after which her stools were not so frequent. Afterwards for three dayes together she took in the morning a Decoction of Myrobalans, wherewith she was perfectly cured. The Decoction was thus made.

Take of Myrobalans Chebulan, one ounce; Citrine Myrobalans half an ounce, Currants two ounces. Bryl them in a quart of Water, to the Consumption of a third part. Clarifie the Liquor, and Aromatize it with two drams of Cinnamon; let her take it in four doses morning and evening.

The 203 Observation or History of Famous and Rare Cures, &c.

Of Worms.

MSr. de Saint Andrew, a Gentleman of sixty years old, was troubled many dayes with a Dysentery, and afterwards with a Tertian Ague. And at last when he seemed to recover, his

his Pulse was found to intermit, for three or four dayes, with anguish of Mind, and weakness. The cause of this intermitting Pulse could not be discovered neither by his ordinary Physician, nor by my self, in consultation with him. But it did discover it self, being a Worm, as thick as a mans finger, and half as long as ones Arm; which being voided, his Pulse became orderly, and the Patient, who was an Outlandish man, returned into his own Country.

The 204 Observation or History of Famous and Rare Cures, &c.

A Dysentery.

THe second of *August*, 1643. my Son *Charles* being seven years old, was taken with a Dysentery by reason of a sudden coldness of Weather which then happened. He voided much Flegm mixt with Blood, but without any pain or Feaver. On the second day he was as before. On the third, he was taken with a Feaver, his stools not so large, but more frequent, of a Leek colour and with gripings; Clysters of Milk were given him, and blood taken away to the quantity of six ounces. At night the Flux being violent, I gave him half a grain of Laudanum; his flux was a little abated, so that he went seldome to stool, and with less pain. On the fourth day I gave him a potion of one dram of Rhubarb infused in Plantane Water, with a scruple of powder of Rhubarb, and one ounce of Syrup of Roses: his Feaver being very remiss, he voided much Flegm and Choler many times, with amendment; but the night following he was vexed with most grievous gripings, and those in a manner continual, with a perpetual but vain desiring of going to stool. I gave him about midnight one grain of Laudanum; whereby the gripings were allaid, and the Loosness abated, so that he went to stool but once in an hour. His Drink was continually a decoction of Ivory, with conserve of Roses mingled therein, where-with I did sometimes mix a scruple of *Sal Prunella*, this was instead of Juleps which he obstinately refused to take. On the fifth day his stools were seldomer, so that sometimes he had not one stool in the space of two or three hours, and Flegmatick and Cholerick humours were voided without blood, or any Feaver. The sixth and seventh dayes, he was after the same manner. On the eighth day he took a dram of Rhubarb in Broth, and voided much excrementitious matter at times. On the ninth day his stools were more seldom and thicker, he had a stomach to his meat; and the dayes following without any other Remedies, blessed and praised be God, he was restored to perfect Health.

The 205 Observation or History of Famous and Rare Cures, &c.

A Purge in the Dog-dayes.

ANno. 1643. In the Heat of the Dog-dayes, about the beginning of *August*, three little Boyes of two or three years old, were by Physicians that had the Care of them purged with gentle Purgations, and died the same day in Convulsion Fits. Two of these were troubled with a Catarrh falling upon their Breast; the Third with a Dysentery. Other Children also by means of Catarrhs fell into Convulsions at the same time, and died the same day. Now these Epileptick Convulsions are caused by the Humours melted through heat of the Air. Hence it is apparent, that we must be exceeding wary how we purge our Patients in the Dog-dayes, according to the Precept of *Hypocrates*.

The 206 Observation or History of Famous and Rare Cures, &c.

Costiveness.

A Certain Dominican Fryar of a Melancholy temper, was so costive, that he went not to stool sometimes for six or seven days together. Which inconvenience he did remedy, by taking two hours before dinner stewed prunes and their Syrup, to which he added a quantity of Wine allayed with Water, the half of which he took before his Prunes, and the other half after them; and so his Belly was more conveniently loosened and more effectually, than it had been wont to be when he did only eat the Prunes. He also sometimes helpt himself by taking the quantity of a Walnut of new Butter, and drinking upon it a draught of Wine and Water mingled.

The 207 Observation or History of Famous and Rare Cures, &c.

A Pain of the Hemorrhoids.

THE same Fryar on the fifth of August 1643. was taken with a most grievous pain and remarkable swelling of the Hemorrhoids, with Inflammation. I being sent for, ordered him to bleed in his left Arm, a Clyster being premised; and after that a pain-asswaging Fomentation, with a Cataplasim of Crums of bread, which he could not endure by reason of the most exquisite sense of that part. The second day I caused him to bleed again from his right Arm, he took emollient Juleps, and some what laxative, that his body might be kept open, for the hardness of his Dung was wont extreemly to encrease his pain. Now the Juleps were made after this manner.

Take Leaves of Lettuce, Bugloss, and the tops of Mallows, of each one handful; Liquoris scraped, and Raisins stoned, of each half an ounce: Flowers of Bugloss, Borrage and Violets, of each one pugil, boyl them to eight ounces. In the strained liquor infuse one ounce of Cassia new drawn, let them be again strained and clarified, adding thereto an ounce of Syrup of Violets, let him take it twice in a day.

To the part it self this following Oyntment was applied.

Take Oyl of Roses and Violets, of each one ounce, Oyntment of Populeon half an ounce: Make a Liniment bereof.

And because the Tumor and pain did continue, two Leeches were applied, and four ounces of Blood taken away, and the tension and Inflammation were somewhat abated. And afterwards this following Fumigation was prescribed.

Take Great Housleek an handful, white Wine a quart. Boyl them, and let him receive the steam of this Decoction through a groaning Chair. And then let this following Oyntment be applied to the part.

Take Oyntment of Roses one ounce: crude Mercury two drams, mix them into an Oyntment.

And although Mercury have a mighty faculty to soften and discuss a Tumor, yet the hardness abode in the part. And therefore two Remedies were prescribed to mollify and discuss the Tumor. The first was the fume of Vinegar in which burning flints were quenched, which Galen says will mollify Schirrhous Tumors; the next was this following Liniment to be applied after the suffumigation.

Take Oyl of bitter Almonds two ounces: Bdellium and liquid Storax, of each two drams. Make them into a Liniment.

With these, the pain and swelling were dayly much diminished; whereinto also a Decoction of Mille-folium was much subservient, which he took two days together for his ordinary drink, with a little Wine mingled with it.

And because he was continually costive, to loosen his Belly, and withal leisurely to remove the antecedent Cause, these following Pills were prescribed.

Take of the Mass of Pills de Bdellio two drams, Senna cle ansed, choice Rhubarb and Agarick newly trochisked, of each one dram. With Syrup of Roses solutive make all into a Mass of Pills, of which let him take a dram every day in the morning, till the Mass shall be spent.

And these being continued certain days, he perfectly recovered. The fumigation of Vinegar was very effectual in discussing the Tumor.

The 208 Observation or History of Famous and Rares Cures, &c.

An Asthma and Dropsie.

A Poor old man being troubled many years with the Tiffick, became Hydropical, and because he could not be plied with much Physick, a Clyster is prescribed him of an handful of Bran and one dram of *Coloquintida*, boyled in White-Wine, with which he voided many Flegmatick and Wheyish Excrements. The same Remedy he repeated every third day, and once in a week took half an ounce of *Diacarthamum* in broth, and within a Moneth his Dropsie was cured. But because his Tiffick could not be cured by reason of his old Age, and the Patient only required some Remedy to be used in the fit, and thereby to free him from choaking, and somewhat to abate the Extremity of his short windedness; This following was prescribed him.

Take Cinnamon Water two ounces, Oxyssel of Squills one ounce, mix them. Let him take some in a spoon during his fit.

With this Medicine he voided much thick and clammy flegm, and was soon freed from his fit which did threaten absolutely to strangle him.

The 209 Observation or History of Famous and Rare Cures, &c.

A Dysentery.

A Young man twenty years of Age, born about the end of August, 1643, was troubled with a Dysentery twelve days together; which he took no Medicine for, and being brought into the Hospital, he took by order of the Physitian thereof, one dram of Salt of Vitriol, dissolved in water; He vomited much flegmatick and Chollerick matter, and so the Humor flowing into his Guts was revelled, and he cured by this only Medicament.

The 210 Observation or History of Famous and Rare Cures, &c.

A double Tertian.

A Certain young man called *James du Rand*, being seventeen years old, in the Moneth of September 1643. was sick of a double Tertian, and had past over eight fits ere he took physick: he was let blood, a Clyster being first given him, and the day after he took ten grains of *Cambogia*, prepared with Spirit of Wine and Sulphur. He was not purged, only was a little Stomach-sick with vomiting. The fit came sooner that day, yet was shorter than before, and he never had more, but was perfectly cured.

The 211 Observation or History of Famous and Rare Cures, &c.

Another double Tertian.

Peter Alegre, twenty years old, had a Tertian six weeks, in which time he was divers times let blood and took purging Medicaments. At last he took a Bolus of ten grains of red Precipitate made without corrosives, and a like quantity of Scammony, made up with conserve of Roses. He was troubled with a gentle Loosness eight or ten days before the taking of this

this Medicament, which he had not told his Physician: howbeit such was the operation of the Medicament, that it purged not, the Loosness was stopt, and the Ague fits went quite away.

At the same time another troubled with the same kind of Ague, did take the same Medicament, and was thereby ten times purged, being Stomach-sick between whiles, and he was cured of his Ague fits.

The 212 Observation or History of Famous and Rare Cures, &c.

Spitting of Blood.

A Soldier named *Beaulagnet*, being thirty years old, of temperament chollerick and Sanguine, fell eight moneths since into avoiding of blood at his mouth, which at first he cast up by vomiting to the quantity of eight pints, from which he was freed, by frequent blood-letting. But the same vomiting of blood came afterwards again, though in lesser quantity, and now by fits he did spit bloody spittle, and sometimes pure and meer blood. For whom these following Remedies were prescribed, in the beginning of *August. 1643.*

After a Clyster, open the Basilica Vein of his left Arm, and let out six or seven ounces of blood.

The day after open the Ankle Vein of his left Foot, and take as much blood as before.

The Leaves of Plantane one handful. Tamarinds half an ounce. Boyl them to six ounces: In the strained Liquor, infuse one dram of choice Rhubarb, Citrine Myrobalans half a dram. Yellow Sanders half a scruple. In the strained liquor dissolve Manna and Syrup of Roses, of each one ounce: Powder of Rhubarb one scruple: Make of all a potion, which give him the day after his last blood-letting, and let him be ordered accordingly.

The day after his purgation, apply two Causticks behind his Neck, between the third and fourth Vertebraes.

Take Roots of Snake-weed, Tormentil and Comfry, of each one ounce. Leaves of Plantane, Burnet, Mous-Ear, Vincâ-Pervinca, of each one handful; Red Sanders two drams: Boyl them to one pint and half. In the strained liquor dissolve four ounces of Syrup of dried Roses. Make a Julep for four mornings doses, and adding to each scruple of Sal Prunella.

The Juleps being ended, the foresaid purging potion must be repeated, adding one scruple of powder of Jallap, and infusing all the Rhubarb.

Take Comfry Roots one ounce: Leaves of Plantane, Burnet, Bugle, Prunella and Mous-Ear, of each half an handful, boyl them in the broth of a Weathers Neck, and let him take the strainings in the morning twelve days together.

After every fourth broth, let him take the purging potion aforesaid.

His broths being ended, let him use this following Opiate.

Take Conserve of Roses and Comfry Roots, of each one ounce: Trochisks of Amber and Terra Sigillata, of each half a dram; Coral prepared, Pearls prepared, and Blood-stone, of each one dram: Gum Arabick and Tragacanth, of each one scruple: with Syrup of dried Roses make all into an Opiate, of which let him take the quantity of an Hazel-Nut, two hours before meat, drink a little of his ordinary drink after it, which must be Ptisan made of a decoction of Barley and Liquoris, or water in which Iron has been quenched, and wherein Burnet and Mous-Ear have been steeped.

In the beginning of Autumn, let him use for fifteen days Goats-milk or Sheeps-milk, lightly Chalybeated.

As soon as he had set upon the use of these Remedies, spitting of blood ceased, and it never appeared all the time he used them, nor ever afterwards.

The 213 Observation or History of Famous and Rare Cures, &c.

Wind instead of Pus coming out of a Tumor.

A Woman thirty years of Age, had a swelling for eight moneths in the lower part of her thigh,

and on her Knee; it was not red, but did pain her, so that she halted. Many discussing Remedies being applied, the Tumor remained as it was. At last in two places, viz. On the inside and outside, there appeared a remarkable rising and round about it softness and fluctuation, so that all conceived there was quittor within; a potential caustick was applied to the most swelling part, which was the outer: afterward the Eschar being cut with a Pen-knife, and the Tumor opened, there came out a certain Wind, and nothing else. The like story there is in *Zacutus Lusitanus*, in the first book of his admirable Practice, Observation the 163. where from *Galen* and *Avicenna*, he teaches, that such Tumors as these in the Knee are many times opened by Physicians, supposing there is quittor concealed within, whereas nothing comes out but a windy spirit.

The 214 Observation or History of Famous and Rare Cures, &c.

Stings of Bees.

A Merchant of *Montepier* named *Calaparede*, fifty years old, going early in the morning out of the City, and intending to Travail, when he was a mile on his way, a swarm of Bees flying in the Air suddenly assaulted him, and fixed all over his Face and Neck a thousand stings. Whereupon he was forthwith grievously pained, which made him presently turn home again. Being called to him, I find the man extremely out of Patience by reason of the pain; that he could hardly contain himself in his bed; his Face did swell and was red all over. I presently caused the places stung to be smeared with Treacle, which not restraining the extremity of the pain: I ordered him a Fomentation of the same Treacle dissolved in *Aquæ Vitæ*, wherewith the pains were somewhat mitigated, and the swelling of his Face abated. Afterwards to the places most pained, bruised Onyons were applied in manner of a Cataplasim, and after that they were anointed with *Matthiolus* his Oyl of Scorpions. The extremity of the pain caused us many times to change our Medicines, which being continued for two hours, and a cordial and antidotary potion being given him, the pains ceased in all parts almost. But there abode yet a most acute pain in the Gristle of his left Ear, which could not be allayed with the foresaid Remedies. Considering with my self that not only Bees applied to the part, to attract the poyson, and assuage pain, but also other kind of Flies, I conceived that Cantharides might do good for a double reason, first because they are a sort of Flies, and then because they had a mighty drawing faculty. And because the Vesicatory Plaister kept in shops, has store of Cantharides in it; I laid a Plaister made thereof to his Ear, which in a quarter of an hour took the pain quite away. No bladders being raised, because it lay on so small a time.

The 215 Observation or History of Famous and Rare Cures, &c.

A Catarrh with Hoarsness.

About the end of *October*, 1643. When the South winds began first to blow, I was troubled with a Catarrh falling upon my Breast, which made me exceeding Hoarse, and almost speechless; which to remedy, I purged my self with a Laxative Pilsan, which I took twice a day two days together. This cured my hoarsness, and in the day time I seemed to be free from the Catarrh, but in the night about midnight the defluxion encreased, and caused perpetual coughing, so that I was fain to rise from my bed. For the Cure whereof, I lost ten ounces of blood; yet the night following, the same Cough returned, which could no other ways be stopped, but by rising out of my bed. The day after my blood-letting, I seemed freed from the Catarrh, but at midnight my Cough came again; which effectually to allay, I took presently three grains of *Laudanum*, and going to bed again half an hour after I past the rest of the night without Cough or defluxion, in a most sweet sleep; and the following nights, neither Cough nor Catarrh appeared any more. When the Disease was most troublesome, I abstained

abstained from Wine, using for my drink a Ptisan made of Liguoris and Coriander seed.

The 216 Observation or History of Famous and Rare Cures, &c.

A double Tertian with a Dropsie.

Anthony Sany, of Montepelier, being about forty years of Age, a poor mean Man, in the moneth of September, 1643. Was taken with a most vehement double Tertian, which he endured an whole moneth without any Physick, keeping a bad Diet; whereupon first his Spleen did swell, and contract a Scirrhus hardness, and at last he grew Hydropical. Being in this condition, he sent first for the Physitian of the Hospital, who first prescribed him a purging potion, afterwards to be let blood, and after that an Apozem, cooling, opening and purging, for three doses; and withal an Emollient and Aperitive Fomentation for the Region of his Spleen, and to be again let blood after the use of the Apozems. When these things did no good, he gave him by my advice a Bolus of twelve grains of Mercurius Vitæ corrected, and working only downwards, in conserve of Roses; he had two stools without any Stomach-sickness or vomiting, and the day following his fit was milder and shorter, which before was wont to be most vehement. Two days after, the same Medicament was given him again, which voided by stool very much black, Leek-coloured, and stinking Excrements, and his fit much abated. After two days were over, he took a third dose of the same Medicament and no Evacuation did follow; but his fit came no more: and from that time forward he was quite freed of his Tertian Ague. Howbeit the Dropsie remained and the swelling of his Spleen, and an exceeding pain in the same part, for the Cure of which Diseases he had given him a Bolus of a scruple of Calomelanos of Turquetus, and ten grains of Diagridium with conserve of Roses; which Remedy was used for six days together, whereby he was purged downwards twice or thrice every day without trouble. And after the fourth time taking, the swelling of his belly did seem abated, the hardness and stretchedness of his Spleen discussed, so that he seemed perfectly cured. But for the more Sureties sake, the Medicine was continued yet two days more, and afterwards he was left only to Kitchen Physick to repair his strength, seeing no preternatural disorder was found remaining in his body. But the so sudden resolution of the Tumor of his belly, and the tension and pain of his Spleen, makes a conjecture that abundance of Wind was contained in the Patients belly, which was soon discussed, the ways and passages of the natural parts being laid open.

The 217 Observation or History of Famous and Rare Cures, &c.

The Dropsie in a little Boy.

THe Son of M^r. Changerius, A Proctor in the Court of Accounts, six years old, at the beginning of Summer, 1643. began to be afflicted with a troublesome pain in the Region of his Spleen, which did reach unto his Navil. After which followed a swelling of his belly encreasing by little and little, with leanness of his whole body. Which because they were not very troublesome, his Parents neglected to get him Cured; till the end of October, when they came to ask my advice. I prescribed in the first place a purging potion, afterwards opening broths for twelve days, adding to every third broth two drams of Senna, and one ounce of Syrup of Chichory with Rhubarb. At the same time his whole belly was anointed with an opening Oynment, and he used for his ordinary drink a Diet drink of Rhubarb infused in Chalybeat Water. These things being diligently used did no good. And therefore betaking my self to more powerful Remedies, I prescribed him an opening and strengthening Opiate, to be used every day, also a purgation of Jallap and Scammony, of each ten grains, Calomelanos of Turquetus, twelve grains, reduced to the form of a Bolus, with Conserve of Roses. At the first giving, there

there were but six grains of Scammony and Jallap, but because the Medicine gave him but two stools, ten grains of each were used in the second dose, with which the Patient had four stools without any trouble, and the next day in the morning he went once to stool; and in his stools was found a bladder of Water as big as a Walnut, to which did cleave a sufficient quantity of thick and viscid Flegm. Every third day these purgations were used, and five times repeated, and the Patient was much more lively, but because of the Frost, these purgations were omitted for some time. After two moneths, his Navil opened of its own accord, and a great deal of quittor came forth, whereupon the Patient died. The pains which appeared at the beginning of the disease might argue an Imposthume, if they had been observed by an attent Physitian; but because none was then called, and his mother made no mention of that pain in her first relation of the Disease, and the Tumor had possessed his whole belly, it was supposed to be a vulgar Dropfie.

The 218 Observation or History of Famous and Rare Cures, &c.

A Cancerous Ulcer.

THe Mother of *Peter Renaldas*, a Chyrurgeon of *Montpelier*, being sixty years old, had an Ulcer in her left Leg, as high as the Palm of a Mans hand, black and blew, and malignant, having very hard flesh, and quite void of sence, so that she felt not when it was cut; which did proceed from black Choller burning the substance of the part. Now it was in the Moneth of *October*, 1643. when the Weather was very cold, so that baths to sit in being otherwise very necessary to correct the distemper of her Bowels, could not be used. And therefore I ordered her only to keep a cooling and moistening Diet, for many days together using cooling and moistening broths, and to be purged once in a week with a Laxative Ptisan. And she applied to the part, red Precipitate to consume the dead flesh, and a deep Eschar being made, the Emplastrum Stipticum Crollii was applied to the Ulcer, by help whereof, within one moneths time, the Ulcer was filled with flesh, and closed up with a Scar.

The 219 Observation or History of Famous and Rare Cures, &c.

A Wound with a Bruise.

A Priest seventy years old, well in strength, received a wound with a bruise, whereupon he was tormented with a bitter pain, and the part was very black and blew. He was presently let blood, and Emplastrum de Cummino was laid on, the day after a gentle purge was given him. The pain continued, and therefore the part was frequently anointed with Oyl of Wax warm, the foresaid plaister being laid thereupon, and so in the space of twenty four hours, all the pain was taken away, and the old colour restored to the part.

The 220 Observation or History of Famous and Rare Cures, &c.

Of a simple Tertian.

A Young Man twenty five years old troubled with a Simple Tertian, about the end of *September*, 1643. Was cured by these following Remedies. First a purge was given him. The second day he was let blood. The third day was given him red Præcipitate, prepared without corrolives with Scammony, ten grains of each. He voided much Chollerick and Leek-coloured Excrements, by two vomits and as many stools. The Disease continuing, the same dose of both was given him, he was purged after the same manner, and the Ague came no more.

The 221 Observation or History of Famous and Rare Cures, &c.

Of the Tiffick.

A Man seventy years old, having been many years Tiffical, was at last brought to that extremity, that he could hardly draw his Breath, no not when he held his head upright; he was always gaping and wheezing; nor could any way rest, but that he seemed presently that he should be choakt. By the use of these following Remedies, his wheezing ceased, he fetcht his breath more easily, and was much eased.

Take Cinnamon water two ounces: Oxytel of Squils, one ounce: Mix them, let him take hereof out of a spoon frequently.

Take Elicampane Roots preserved three drams: Sugar Candy, half an ounce: Syrup of Hyssop two ounces: Gum Ammoniack dissolved in Aqua vite, half a dram: Mix them into a Lohoch, of which let him take one spoonful morning and evening, licking it in by little and little.

The 222 Observation or History of Famous and Rare Cures, &c.

A Chollick pain and Rheumatism.

ON the 19. of December, 1643. The most renowned Matron, the Wife to Msr. de la Roche, Councillour in the supreme Court of Accounts, Subsidies, and the Exchequer at Montpelier, was taken with a most cruel Cholick pain, whereby the whole Region of her Loins and of her Belly beneath her Navil, was vehemently tormented. Now she had been troubled two Moneths with the Rheumatick Disease, which had gone over well near all the parts of her body one after another, causing pain in the said parts, nor was she yet free from the said pains. For the vanquishing whereof, Blood had been frequently taken away, both from the upper and lower parts; Clusters were frequently injected, but few purges, and those gentle were given her, because the Patient being dainty and tender could not otherwise bear them. For the removal of this grievous pain I prescribed her a Clyster of an emollient and carminative Decoction, in which were dissolved double Catholicon one ounce, Diaphanicon half an ounce, Aqua Benedicta four ounces. Within half an hour after she had taken the Clyster, she voided half a Basin full of thick and viscous flegm; and half an hour after that she voided as much more of the like flegm; and an hour after that she vomited the same kind of flegm, only in less quantity and mingled with yellow Choller. She had two stools, and three hours after her receiving the Clyster she was perfectly freed from her pain. The night following she slept excellent well, and the foresaid Rheumatick pains quite ceased.

The 223 Observation or History of Famous and Rare Cures, &c.

A Dropsie.

JAMES Mignot a Baker of Montpelier, being twenty years old, having in the Moneth of August, 1643. been troubled sometime with a double tertian Ague, by carelessness in his diet, he fell into a continual Feaver, which having held him twenty days, turned again into a double Tertian, which lasted a whole Moneth; and because he used little or no Physick, and drank abundantly, he fell at last into the Dropsie Ascites, wherewith he had been held two Moneths when I was call'd to him, and then his Belly was mightily swelled, also his Thighs, Legs, and Cods; and his whole body was so weakned that he was fain continually to keep his bed. I set upon this Cure after this manner.

The

The first day which was the 27th of November, I gave him a purging Medicament of Senna, Agarrick, Manna, and Syrup of Roses, whereby he was moderately purged. On the 28. he was let blood eight ounces from his right Arm, and his Blood was full of wheyish liquor. On the 29. he took a Bolus of twenty four grains of Calomelanos, and a scruple of Jallap, made up with Conserve of Roses; wherewith he had five stools of thick and black Excrements, after which he voided store of Wheyish Humors, his Thighs and Legs were much abated, and his Cods were not above half so big as before. On the first of December the same Medicament was iterated with the same operation. On the second of December he took it again, and the operation was as before, but somewhat lesser: The swelling of his Thighs, Legs and Cods, was quite down: But his Belly continued as before. The third day of the same Moneth a Clyster was cast into his Guts, of the Decoction of one dram and a half of *Coloquintida*, and an handful of Bran, boyled in white Wine. He kept it not long, yet had two sufficient stools. The fourth day of the same Moneth, the same Clyster was repeated of one dram of *Coloquintida*, to which was added one ounce of common Oyl, that it might not too much provoke the expulsive faculty he kept it longer, but had only two stools. On the fifth of December he took a water-purging powder, and was plentifully purged, voided much black excrement, such as he had also voided with his Clysters. The Powder was made after this manner.

Take Senna cleansed, gummy Turbith, Hermodactils, dwarf-Elder seed, Jallap, Mechoacan, of each one dram. Cream of Tartar two drams: Gambogia half a dram: Species Diambra, Diarrhodon Abbatis, and sweet Fennel seed, of each one scruple. Sugar Candy three drams: Make of all a Powder, of which infuse two drams all night in four ounces of white Wine. Let him in the morning drink of the Wine and Powder.

The sixth day of the same Moneth he took this following Julep.

Take Roots of Smallage, Parsly, Elicampane, of each one ounce: the middle Bark of Ash and Tamarisk, of each half an ounce: Roots of Asarum three drams: Leaves of Agrimony, Ceterach, Maiden-hair, Cicory, Ground Oak, Centaury and Wormwood, of each one handful: Annis seed and Parsly seed, of each three drams: Flowers of Broom and Elder, of each one pugil: Boyl them to fifteen ounces; In the strained liquor dissolve four ounces of Violets, make a Julep, for four morning doses, adding to each dose one dram of Diuretick Salt, and half a dram of Diuretick Spirit. At the first giving of the Julep no sensible effect appeared; But at the second taking, his Urines were more plentiful than formerly.

After the second dose of his Julep, viz. the eighth day of December, the Water-purging powder was again given him, which wrought mightily. On the ninth and tenth of the same Moneth his Julep was repeated, and his belly appeared softer and smaller: he walkt almost all day up and down in his Chamber. On the twelfth, thirteenth, fourteenth, and fifteenth days, his Aperitive Julep was repeated, and his Urines were more plentiful, and his Belly grew dayly less, so that now he seemed perfectly to recover, and to need no strong Medicaments. And therefore I enjoyned him only to keep an exact diet, and to use as his ordinary drink Chalibeated white Wine, with his accustomed Ptisan which he had used from the beginning of his Disease, being made of a Decoction of Agrimony, Ceterach, Maiden-hair, and the middle Rinds of the Tamarisk. Having given him this order, I saw him no more in five or six days time, which being past, he told me he was still extream thirsty, as he had been all the time of his Disease. I advised him for the quenching of his thirst, to dissolve in three pints of his ordinary Ptisan, half an ounce of the purest Salt-Peter, and use the same for his ordinary drink, with the Chalybeate Wine aforesaid. Which being continued for five or six days, his thirst went quite away, and his Urines thereby became much more plentiful. So that continuing the same for ten or twelve days the remainder of the swelling of his Belly was wholly discussed, and the sick man (God be blessed and Praised) recovered his former health. Howbeit I advised him, that he should yet use the Chalybeate Wine for a long time in his drink, and that he should take two ounces thereof every morning. These things were done two years agoe, and he has since that time lived lusty and strong, and is at this present in very good Health.

The 244 Observation or History of Famous and Rare Cures, &c.

*Immoderate flux of Blood in a Woman with Child,
with a dead Child.*

THE Wife of John Chauvet, Chief Officer of the Court of Accounts, Subsidies and the Exchequer, being thirty years old, in the beginning of her ninth Moneth gone with Child, which was about the middle of December, 1643. received a small blow on her belly, but the day following she took a great deal of pains in making a bed; whence arose a small flux of blood from her Womb, which lasted two or three days, and then it was stopt for as many days more, and then returned again, and ceased by fits till the 28. day of the same Moneth, in which the blood issued so plentifully, that within three or four hours her strength was exceedingly abated; and the same continuing, she called Physicians to advise, who first prescribed her to bleed in her Arm, and to take astringent Juleps; which Remedies working no effect, her flux continued very violent, without any sign of Child-birth towards, and the Woman said that for many days she had not perceived the Child to stir, & one might feel it all on a heap and immovable; for which cause we conceived the Child was dead, and that her womb endeavouring to cast out the unprofitable burthen, did continually contract it self, and expel the blood out of its proper Veins, nor could sufficiently perform that motion which was necessary for the Birth; and therefore it was necessary by all possible means to provoke the Birth, that the immoderate flux of blood might be stopped, which otherwise would kill the Patient. To which end a Clyster was given her in the first place, with Catholicon and Diaphænicon, of each six drams; Oyl of Lillies three ounces, Salt one dram; with an emollient Decoction wherewith she was very well purged, and presently after the voidance thereof, the Flux of Blood was very much abated; which may seem strange, because such kind of Clysters are wont to encrease a flux of blood; but I suppose the reason thereof was, because the Womb was burthened with the Excrements in the *Intestinum rectum*, and being free from that burthen, it began to recollect it self, and to stop that preposterous motion, that it might betake it self to one more genuine and natural. And because after the Clyster was voided, the Womb did not endeavour the expulsion of the Child, but a flux of blood still continued, and it was apparent that the Child was dead; to drive the same out we gave her one dram of Salt of Vitriol dissolved in four ounces of Borrage water. Which verily seemed to do her good for two reasons; first, because by provoking vomit, it would provoke the Womb also to thrust forth the Child; because in vomiting all parts in the lower Belly, do vehemently contract themselves; secondly, because Salt of Vitriol is of a mighty astringent nature, and so might help the flux of Blood. Having taken the Medicament, she vomited twice strongly enough, and voided many flegmatick, wheyish and cholerick Excrements, and soon after her throws began to come: which having continued four or five hours all after one manner, being no frequenter or vehement than at first, further to hasten the Birth, this following potion was given her.

Take Dittamus of Crete, the two Birthworts and Trochisks of Myrrh, of each ten grains; Saffron and Cinnamon, of each twelve grains; Confectio Alkermes half a dram: Cinnamon water half an ounce, Orange-flower water and Mug-wort water, of each one ounce and half. Which having taken within a quarter of an hour she had strong Labors, and with three or four throws she voided the Child; whose skin beginning to putrifie, seemed in divers places to be torn. A little after she voided the after-birth likewise, which was half rotten; and from that time forward her Child-bed Purgations came away very moderately.

The 225 Observation or History of Famous and Rare Cures, &c.

Of Sore Eyes.

A Country-man fifty years old, being troubled with an old Inflammation of his Eyes, by the advice of a Physitian, did for a long time observe a cooling Diet, and did drink water, but found no ease. At last another Countrey-man perswaded him to leave off that cooling Diet, and give himself to drink pure Wine. After his first Cup of Wine he perceived his Eyes to be better, and within a few days continuing the same drink, his Eyes became well. I have heard that the like happened to two more, which confirms the Aphorism of *Hypocrates*, that pains of the Eyes are sometimes cured by drinking of pure Wine, viz. When the foreness of the Eyes proceeds from thick and flegmatick blood fastened into the tunicles of the Eyes, which by the use of pure Wine is melted, attenuated and disscussed.

The 226 Observation or History of Famous and Rare Cures, &c.

The Iliac Passion.

THE 29. of January, 1644. M^r. William Patris, Councellour in the Presidial Court at Montpelier, began to be troubled with a vehement Cholick, caused by extream cold of the weather at that time. An Apothecary being called, gave him presently an Emollient, carminative and laxative Clyster, wherewith he voided many Excrements. The pain continuing, the same Clyster was repeated, with an Addition of Carminative Oyls, which he voided not. The pain still raging, a third Clyster was given him, which he likewise retained. Divers suppositories being put up, he voided some part of the Clyster, without any dung. I being called on the second day of the Disease, prescribed him an Emollient and pain-awaging fomentation, to be applied to his whole belly, and a Clyster made of a Decoction of the fomentation, which he also kept a long time, and voided a little part of it, without any matter; he had no pain, nor any Feaver; but he was troubled with a vomiting by fits. Whence there was reason to conjecture that he was troubled with the *Passio Iliaca*; but what should be the cause thereof, was doubted in the Consultations of Physicians called to advise in so extraordinary a Case. For the Feaver which came the third day, with thirst and driness of his Tongue, did argue some inflammation. But how there could be an Inflammation of the Guts without pain, I could not conceive: It seemed rather to proceed from dung hardened, or from the twisting of some Gut. Many Remedies were used, blood-letting thrice repeated, twice in his Arm, once in his Foot, cooling Juleps were given him, Clysters were administered every hour of a Decoction of the Guts of a Wether; an Emollient Fomentation was continually applied to his whole Belly. His vomiting continued till the seventh day, by which he voided his meat and drink, with a cholerick, flegmatick and dungy matter. About the end of the seventh day his Belly began to be loose, he voided many Excrements by fits, his vomiting being quite ceased. His looseness continued five days, the Feaver and weakness nevertheless continuing; in the end he voided liquid matter, such as he was formerly wont to vomit. On the thirteenth day of the Disease he was extreamly unquiet and weak, and his weakness encreasing, he died. His body being opened, we found his Gut *Ileon* three times twisted and drawn together in a bunch towards the end thereof; and all that twisted portion of the Gut gangrenated, with a portion of the Mesentery joyned thereto. The rest of the Guts were exceeding large, being as big as a mans Arm. Moreover the gangrenated Gut had a hole bored in it, above the complication; I suppose it was broken by the weight of the Excrements in the Guts above it after it was mortified. By that hole, the superfluity of Excrements flowed into his Belly, and by long retention had putrified the inner part of the *Anus*, wherein also another hole was found, by which the Excrements did flow through the Belly, and made a show as if the stoppage of the Guts had been opened. Whence it is apparent, that a looseness happening upon the Iliack Passion, may sometimes deceive Physicians.

The 227 Observation or History of Famous and Rare Cures, &c.

Unquenchable Thirst.

ON the 17. of February, 1644, I was called to *Lodovamper*, the most Illustrious Bishop of *Lodova*, being sixty years old, of a Sanguine Complexion. He having been for some days troubled with arthritick pains, of a sudden the pains were much diminished, and at the same time a Feaver seized him with an unquenchable thirst, so that having drunk two good draughts of Water, it was no waies abated. I conceived that these Symptoms did proceed from the retention of those Humors which were before carried to the joynts, for they being restrained in the inner parts of the body caused that Feaver and Thirst; whereby he was in great danger of death; for persons troubled with the running Gout are wont to die in their old Age, when the expulsive faculty being weakned, cannot sufficiently expel superfluous Humors into the joynts, so that they being retained in the Bowels, do cause grievous and for the most part deadly Diseases. For the cure of these Diseases, I appointed a cooling and laxative Clyster to be given him twice in a day, for two days together, and in every draught of his ordinary drink, which was a Decoction of Barley and Grass, I dissolved one dram of *Sat. Prunella*, and eleven drops of Spirit of Vitriol. With these Remedies, in the space of two dayes, that mighty Thirst was extinguished, and the Feaver very much abated. And in a few days after, with gentle purgations and cooling broths used at times, he was perfectly recovered.

The 228 Observation or History of Famous and Rare Cures, &c.

A Catarrh flowing into the Lungs.

AT the end of February, 1644. I was afflicted with a most grievous Catarrh falling upon my Lungs, whereupon a vehement Cough troubled me night and day, with shortness of breath, so that I could not lie in my bed. For the Cure whereof I was four times let blood, and purged as many times in the space of fifteen days, also Cupping-Glasses were applied, and a Veficatory, with many thickning Medicaments against the Cough. I had also a small Feaver, which threatned an Inflammation of my Lungs. Although I am wont twice or thrice in a year to be troubled with these Catarrhs, yet I never had any so long and stubborn, so that I much feared it would turn to a Consumption; seeing all Remedies wrought no effect, which at other times did me good. Supposing therefore, that I must make use of some effectual Medicine to pull up the roots of the defluxion, I took twenty grains of *Calomelanos*, and ten grains of *Jallap*. With which Remedy, I voided by stool much flegmatick and cholerick matter, such as my other purgations did not bring away, and I voided much Flegm at my mouth by coughing and spitting, which evacuation continuing two days together, my Catarrh ceased, and my Cough went quite away, and so I was freed (by the goodness of God) from that grievous Disease.

The 229 Observation or History of Famous and Rares Cures, &c.

Bruises.

A Certain young man fell from an high place, and all his members were bruised, so that he seemed to be at deaths-door. His Father took honey-combs with the honey in them, and boiled them in Wrie to the consistence of an Oyntment, which he spread upon the skin of a Weather newly killed, and therein wrapped the Patient. Which being repeated for three days together he was perfectly cured.

In particular contusions; this Oyntment is spread upon a Linnen-Cloth and applied, and presently works the Cure.

The 230 Observation or History of Famous and Rare Cures, &c.

A slow Feaver, with pains of the Loins and Thighs.

THe Son of *Jacob de Ladevese*, a Citizen of *Montpelier*, seven years old, was troubled for some Moneths with a slow Feaver, whereby his body was much fallen away, and it was attended with pains in his Loins and Thighs. He used many Medicaments, but in vain: Being called to him, *April* the 19. 1644. I prescribed him a Bolus of Calomelanos ten grains, and *Diagridium* five grains, with Conserve of *Roses*. Which he took the twentieth day, was twice gently purged, and better after it. On the twenty one day of the same Moneth he took twelve grains of Calomelanos, and six grains of *Diagridium*, was twice gently purged, and much better after it. On the twenty second day he took the same dose with the same operation, and was perfectly cured.

The 231 Observation or History of Famous and Rare Cures, &c.

A Cough, Shortness of Breath, and pains of the Shoulders and Arms.

THe Wife of *Peter Florens* an Husband-man, named *Vavareffe*, was troubled eight Moneths with pains of her Shoulders and Arms, with straitness of her Breast, Cough, and difficulty of Breathing; she voided by Coughing much flegmatick and watry matter. She had taken many Potions and Apozems prescribed by another Physitian, and all to no purpose. At last she implores my help on the eighteenth of *April*, 1644. and I gave her twenty grains of Calomelanos, and ten grains of *Diagridium*, with Conserve of *Roses*. Two hours after she had taken the Medicine, she did sweat twice plentifully, and after that had three large stools, and the day after said she was perfectly cured. Howbeit, three days after I caused her to take the same Medicine again, wherewith she had four stools, and from that time was perfectly freed from the fore-said Symptoms.

The 232 Observation or History of Famous and Rare Cures, &c.

A Chronick Ague, without any certain Course, with the Hypochondriacal Disease.

THe tenth of *June*, 1644. when I was at *Grenoble*, *Msr. de Sancto Martinode Vercors*, thirty years of Age, came to me, desiring to be cured of a most stubborn Disease. He was troubled three years with Ague-fits, which came twice or thrice in the Moneth, without any certain Course; so that the Fit was sometime after Ten, otherwhiles after Twelve or Fifteen daies. It began with a light shivering, which a great heat followed, with grievous pains of his thighs. It lasted Fifteen, Twenty, and Twenty four hours, and went not away, but after plentiful sweating and making water. In the spaces between the Fits he performed all the functions of his body very well, save that he was bound in his Belly, and voided his Excrements with very much straining, which were clammy, and like wax. This Disease took its original from a continual Feaver, which he had three years before in the Camp in *Italy*, not being duly purged at the end thereof, So that the reliques of the Disease resting chiefly in the Mesentery, became thick, and bred stubborn Obstructions. By which the passage of the Humors being hindered, it made a Disease like the Hypochondriacal passion, and in the hot complexion of the Patient raised these kinds of Feavers. Which kind of Feavers did spring from a collection of
Wheyish

Wheyish Humors working and putrifying, which being voided by sweat and Urine, the Fever ceased. Now the pains of his thighs did arise from thick Vapors translated from the *Hypochondria* to those parts. He used many Remedies for the space of those three years, prescribed by skilful Physicians. I set upon the Cure after this manner.

Take Senna cleansed two drams, Fountain water eight ounces, Salt of Tartar one dram, Spirit of Sulphur thirty drops; infuse them cold all night. Let him take the strained Liquor in the morning, and order himself accordingly.

The day following let the *Basilica Vein* of his left Arm be opened, and take away nine ounces of blood.

After blood-letting, let the Infusion of Senna be repeated for three days.

During the use of these Remedies, let his Belly be fomented with an Emollient and Aperitive Decoction in the morning, an hour before he takes the Infusion; and in the evening an hour before Supper.

After the Fomentation, let the same parts be anointed with an Emollient and Aperitive Ointment.

Then let him use Chalybeat Pills for fifteen dayes.

At the same time, presently after his Pills, let him take the Infusion of one dram of Senna, made with Salt of Tartar and Spirit of Sulphur.

During the use of the Pills, let the Fomentation and Ointment be continued morning and evening.

In the middle, and at the end of his Pills, let him use a Luke-warm Bath for two days together.

With these things he seemed to be perfectly cured, for neither did his Ague Fits return, nor did his Excrements retain that same wax-like consistency any longer. Howbeit, to make the Cure more compleat, I sent him to the Medicinal Waters, to take them fifteen days together. I prescribed him for that Summer a magistral Syrup to be taken twice in a Moneth, and a strengthening and opening Electuary to be frequently used. And in Autumn, I ordered him after purging and blood-letting, to repeat his Chalybeat Pills for twelve days with a Fomentation and Liniment. After that, to take his usual Aperitive and purging Pills twice or thrice a Moneth all Winter long. And finally, to continue his Opiate on the intermediate days: The latter Remedies, viz. The Syrup, Pills and Opiate he did not use, because he was by operation of the former freed from that stubborn Disease.

The 233 Observation or History of Famous and Rare Cures, &c.

Immoderate flux of Courses, and a Dropsie beginning.

THE honoured Wife of the renowned Mr. de *Burcin*, President of the Senate of *Grenoble*, for seven Moneths had a continual flux of Courses, whereby she fell into a Cachexy, and the beginning of a Dropsie, with extream weakness. I was called to her the 12. of May, 1644. She said Physick did her hurt, because Purgations augmented her flux, and so did all things prescribed to open Obstructions. But I did prescribe her a purge of the Decoction of Plantane and Myrabalans, wherein half a dram of Rhubarb was dissolved; she was gently purged by this Medicament used for three days together, and the flux also of her Courses was almost stopped, also her perpetual thirst was very much diminished. But to open Obstructions, and to bring away the whole Surplusage of Humors, these following Pills were prescribed.

Take Chalybs prepared with Sulphur one ounce; Senna, Rhubarb and Agarick Trochisked, of each one dram; Species of Diarrhodon Abbatis half a dram. With Oxymel simplex make a mass of Pills, of which let her take one dram three hours before meat, walking upon it.

These Pills being continued fifteen days together she was freed from the immoderate flux of her Courses, and from the Cachexia. And to strengthen her Liver, she used Conserve of Roman Wormwood many days together. And four or five days before the coming of her Courses, lest they should flow immoderately, whence she might happen to be exceedingly weakened;

ned, she took in the morning eight grains of Spikenard, with fifteen grains of Crocus Martis astringent made into Pills, with Conserve of Roman-Wormwood, and so the immoderate flux of her Courses was stopped.

The 234 Observation or History of Famous and Rare Cures, &c.

Tooth-ach and a swelling on the upper Jaw.

THe 15. of *August*, 1644. I was taken with a pain in my teeth, which was followed by a Tumor on my upper Jaw, on the left side, with Inflammation and great pain. After Blood-letting, from the same side, I applied to the part all day long, a Cataplasim of Crums of bread, which I renewed every third hour, and before the Application, I anointed the part with Rose-Water, wherein *Sal Saturni* had been dissolved. The following Night, when the pain continued, I took three grains of *Laudanum*, whereupon I slept quietly, whereas I had not slept the Night before, and my pain was allaid and the fluxion stopped; and the Tumor appeared next day in the morning much lessened, and in the space of that day it was for the most part dissolved.

The 235 Observation or History of Famous and Rare Cures, &c.

Most Rebellious sores in the Mouth.

A Certain Woman was troubled with most rebellious sores in her Mouth, which could not be cured, neither by blood-lettings, many purgations, cooling Juleps, nor anointing with Spirit of Sulphur. She slept not a Nights, and could hardly eat any meat, because all parts of her mouth were full of little Ulcers. She took at night three grains of *Laudanum*, and continued the same Remedy for three days, and so the sharp fluxion which fell into the parts of her Mouth was stopped, and consequently the Ulcers of her Mouth were in a few days thorowly cured.

The 236 Observation or History of Famous and Rare Cures, &c.

A Malignant Feaver.

ON the 14. of *August* my Wives Maid began to be sick of a Malignant Feaver, which brought her to Ravings and Convulsions. And because she was poor, and loth to be at Charges, she was cured with little Physick after this manner.

She was four times let blood, Cupping-Glasses were frequently applied, moist and dry; her drink was a Decoction of Sorrel Roots, wherein I dissolved twice a day one dram of *Sal Prunelle*, and fifteen drops of Spirit of Sulphur. She took frequently in her broths one scruple of *Bexoardicum Minerale*. On the eleventh day of the Disease I gave her two drams of Spirit of Soot in Carduus Water, and she did sweat a little; On the twelfth day I gave her three drams of the same Spirit, with the same Water, and she did sweat plentifully; and the same day the Feaver abated, the Ravings and Convulsive motions ceased, and she was well within a few days after.

The 237 Observation or History of Famous and Rare Cures, &c.

Head-ach of half the head.

THE Daughter of Msr. *de Larcare*, being twelve years of Age, was troubled with an Head-ach on half her Head for some years, which no Remedies could ease, but her body continued, and received no encrease. She was sent by my advice to the *Balerucan* Baths, and drank their Waters, and had her washt with them, and so she was perfectly cured.

The 238 Observation or History of Famous and Rare Cures, &c.

A Wound in the Arm hard to Cure.

MSr. *de Rochemore*, being twenty five years old, received a Wound in his Arm, a little above his wrist, and ascending toward his Elbow. In the Cure, new fluxions did continually arise, wherewith her whole Arm and Hand did swell, and after them followed suppurations, which in other places both of his Arm and Hand were opened, though the Cure was well followed, his Arm and Hand were swelled with a flegmatick Tumor, and out of the Ulcers Wheyish quittor did flow. After many Remedies, respecting the Antecedent and Conjunct cause, the Cure was performed by Bolsters applied to the swelling places, whereby the afflux of Humors into the part was hindred, and the union of the hollow Ulcers procured. And so the Patient was cured in the space of fifteen days, who had been before two Moneths under Cure.

The 239 Observation or History of Famous and Rare Cures, &c.

Of a Pleurisie.

IN the beginning of *September*, 1644. The Son of Msr. *Andifret*, a Citizen of *Montpelier*, five years old, was taken with a Pleurisie in his left side, with a most acute Feaver. After ordinary Remedies used for five days together, and four times blood-letting; I ordered two Cupping-Glasses to be applied to the pained side, with deep Scarrifications; now it happened, that by the Scarrification of that Cupping-Glass which was nearest the pained place, much blood-watry liquor flowed out all that day, and thereupon the pain and Feaver went away. I ordered Beete Leaves to be laid upon the places Scarrified, and the blood-watry liquor flowed out for two days, and in conclusion, true quittor flowed out of the Wounds. And so the Patient was perfectly cured. I believe the Scarrifications did reach unto the place of the Pleurisie, and that the Morbifick matter did flow out at those Wounds.

The 240 Observation or History of Famous and Rare Cures, &c.

Head-ach in a Semitertian Ague.

THE most Illustrious Prince *Janethinus Doria*, Admiral of the Spanish Navy, when he was kept Prisoner of War in the Castle of *Montpelier*, he was taken at the beginning of *September* with a Semitertian Ague, which among other Symptoms, did grievously torment him with Head-ach, and that perpetual, as bad out of the fits as in it, which after four times letting blood in the Arm, continuing as strong as before, it was taken away within the space of an hour, by letting him blood in his right Ankle in the evening of the sixth day. So sudden an effect was worth Observation, that students in Physick may learn what good revulsion is made from the Head, by opening the Saphena Veins:

For

For the Knowledge of all the foregoing Diseases, Read my Idea of Practical Physick, and my Guide to Physick and Chirurgery. And for the Cure of all Diseases, Read the Practice of Physick.

The 241 Observation or History of Famous and Rare Cures, &c.

A Universal Catarrh on all the Joynts.

M Sr. de Barri, the eldest Son of M^r. de Rochemore, Chief President in the supreme Court of Accounts and Subsidies in *Montpelier*, at the beginning of *August*, 1644. Began to be troubled with an universal Rheumatism, infesting well-near all the joynts of his body with a continual Fever, and extream crudity of Urines. This Disease beset him chiefly through unseasonable swimming, for going in the heat of Summer to a River far from the City, he drenched his heated body in the water, whence that universal Catarrh did proceed. For six weeks all the Medicines he took, seemed to do no good, for he was no better than formerly; and the pains did run up and down to several parts, and frequently return upon him. Now the chief Remedies were ten times blood-letting, cooling and thickening Juleps, to which were added twice or thrice gentle Purgations. At last the Disease continuing, there was given him a Bolus of Conserve of Roses, with twenty grains of Calomelanos, and six grains of extract of Jallap every third day. He voided many wheyish and leek-coloured Excrements. With which Remedy four times used, all the pains were taken away; and afterward the flegmatick Tumors which remained in the Joynts, especially of the Feet, were dissolved with Resolving and Roborating Plaisters.

The 242 Observation or History of Famous and Rare Cures, &c.

Of Hiccuppings.

A Maiden of thirteen years old was vexed an whole year together with a most troublesome Hiccup, which came by fits four or five times a day, continuing sometime a quarter, sometimes half, other whiles an whole hour. All the foregoing Winter she had been vexed with this Symptome, but in the Summer she was for the most part free, so that it came but very seldom. In the beginning of Autumn it returned as fierce as ever. Her Father asked my advice the second of *October*, 1644. The day following I caused her to take sixteen grains of Calomelanos, and eight grains of *Diagridium*; with which only Remedy the Disease was quite cured that very day.

The 243 Observation or History of Famous and Rare Cures, &c.

Aneurisma.

THe Son of *Peter Vesian*, a Merchant of *Montpelier*, five years old, being sick of a Fever in the Moneth of *July*, 1644. By occasion of blood-letting, he fell into an *Aneurisma*, by the opening of an Artery; which was perfectly cured by applying astringent Cataplasms of Bole, *Terra Sigillata*, and other materials wrought up with Vinegar and the white of an Egg, and changed every third day, the part being very straitly swathed; and in the space of three Moneths the Cure was finished.

The 244 Observation or History of Famous and Rare Cures, &c.

Of a Catarrh falling upon the Lungs.

THE 24. of October, 1644. The South Winds having blowed for an whole Moneth together, that a hot and moist season was changed into a cold and dry, viz. The North Wind blowing, by means whereof, though for two days immediately proceeding, I had been purged by a laxative Ptisan and Manna, a Deflux of Rheum fell upon my Lungs, which caused me to Cough, fetch my Wind short, and to wheeze a little. For two days it did not much molest me, so that I went about the City nevertheless. The Third day my Disease growing worse, I took an ounce of Manna, and four grains of the Rosin of Jallap, with which I was but little purged; and therefore I took the same night some laxative Ptisan with Manna, and was plentifully purged; in the Course of that night. On the fourth day I dined lightly, and five hours after dinner I took the same Laxative Ptisan, and it wrought pretty well upon me that night. On the fifth day, at bed time my Catarrh being not yet gone, though much abated, I took three grains of Laudanum, presently my Catarrh ceased, and I slept quietly all that night. Yet, because on the sixth day in the Morning, a small wheezing might be heard in my Breast, with a light shortness of Breath, I was resolved to wait away those Reliques by fasting. Wherefore keep in my bed all that day, I took only one Mess of broth at Dinner-time, and some Barley-Broth at Supper-time; I slept quietly all night, and my Catarrh was quite disscussed. Howbeit, a slight pain arose on my right Jaw-bone, which was quite taken away, by a flux of Blood out of the Gum where the Tooth was Rotten: Now there came away drop by drop, about three ounces of Blood mingled with flegm.

The 245 Observation or History of Famous and Rare Cures, &c.

Of a Spot in the Eye.

THE Daughter of Msr. de Merviel eight years old, having long had sore Eyes, a very thick spot was left in her Eyes, which posselt the middle of the Iris. Which was consumed with Rose-Water, wherein Sal Armoniack was dissolved in such quantity, as that it did a little smite the Tongue, and it was kept two or three days in a Copper Vessel, till it got a blew colour.

The 246 Observation or History of Famous and Rare Cures, &c.

A Catarrh with Hoarsness.

ON the 7. of November, 1644. the South-Wind blowing, I was taken with a Catarrh and an Hoarsness. The second day I kept my bed, and took nothing all day but two Messes of Barley-broth at Dinner and Supper-time: The third day I took a Laxative Ptisan, with an ounce of Manna. The fourth day I rested, and my Hoarsness was very much abated. On the fifth I had a dry Cough, which made me open a Vein. On the sixth my Cough continued, therefore I took twenty grains of Calomelanos, and eight grains of Rosin of Jallap. The Medicament wrought not all day, only towards night it gave me two very small stools. Howbeit my Cough was quite disscussed.

The 247 Observation or History of Famous and Rare Cures, &c.

Difficulty of Breathing, with a Cough and Hoarseness.

THE Wife of M^r. *Dortoman*, a renowned Advocate, was troubled with a Cough, Hoarseness, and difficulty in fetching breath, for twenty days together: In the Course whereof, she was thrice purged with an Infusion of *Senna* and an ounce of *Manna*. Being called to her in the beginning of *December*, 1644. I prescribed her to be let blood nine ounces; her blood was very corrupt, then she used seven days together pectoral broths, in the first and last whereof *Senna* was infused, and *Manna* dissolved. Nevertheless a Cough and shortness of breath, though not so violent as before, continued; because her Lungs were weak, and her Brain very moist. In which respect the by-standers propounded the use of a Sudorifick Decoction, which I said I did not dislike, but that we would first try one Remedy more, most effectual to Root up stubborn Fluxes. Whereof I prescribed her twenty grains of *Calomelan*, and ten grains of *Rosin*, of *Jallap*, with which Medicine she was seven times purged, and quite freed from her defluxion, so that she needed no Physick.

The 248 Observation or History of Famous and Rare Cures, &c.

An old Cholick Pain and Loosness.

A *Ntonia de Paravisol*, an honest Virgin twenty five years of Age, was troubled eight Moneths together with a pain in her Belly, not unlike the Cholick, accompanied with a Loosness, with which she voided a Flegmatick and Cholerick matter, as also some quittorish stuff. She had taken very little Physick, till brought to the last cast, and supposing her self to be at death's door; she implores my Assistance. I prescribed in the first place to assuage the pain which was cruel and continual, three grains of *Laudanum*, with one dram of Conserve of *Roses*, whereby her pain was stopped, at least for a time, and her Loosness abated. Afterwards to assuage the said pain, to open Obstructions, and cure that stretching of her Belly, which might be perceived by the Hand, and also to abate her Loosness, I prescribed the Medicaments following.

Take Roots of *Marsh-mallow* two ounces, Leaves of *Mallows*, *Pellitory of the Wall*, *Violets*, of each two handfuls: Seeds of *Line* and *Fennugreek*, of each one ounce; Flowers of *Chamomel* and *Melilote*, of each two pugils. Make of all a Decoction, wherewith let the pained place be fomented morning and evening.

Take Oyntment of *Althea* two ounces, Oyl of *Chamomel* and *Lillies*, of each one ounce. Make a Liniment, and therewith anoint the said part after Fomentation.

The Roots of *Grass*, *Asparagus*, *Butchers Broom*, of each two ounces: Leaves of *Agrimony*, *Burnet*, *Moufe-Ear* and *Plantane*, of each one handful: *Tamarinds* one ounce, *Crude Tartar* half an ounce, *Citrine Myrobalans* two drams; Boyl them to one pint. Make an *Apozem* for three mornings Doses, adding to each half a dram of *Rhubarb*, and an ounce of *Syrup of dried Roses*.

With these Remedies her pain was so abated and her Loosness, that she supposed she was well-nigh perfectly Cured; but after fifteen days the Symptoms returned with the same vehemency. Being called again, I prescribed as follows.

Take *Rhubarb* powdered one dram. Conserve of *Roses* three drams. Mix them into a Bolus; Let her take it in the morning, and order her self accordingly.

Take *Turpentine* washed in *Plantane water* three drams, *Rhubarb* powdered half a dram; Make them into a Bolus. Let her take it three mornings together, after the use of the former.

With these two slight Remedies she was perfectly Cured.

The 249 Observation or History of Famous and Rare Cures, &c.

A long Tertian Ague.

A Girl ten years old, having had a Tertian Ague three Moneths together in the Hospital, after many Remedies tried in vain, took the 8. of *January* 1645. twelve grains of my Feaver-Frighter, it being her wel-day: she had five stools, her fit came that day out of its usual Course, the next day there was no appearance of the Ague, nor ever after. I shall say more touching this Feaver-frighter at the end of the Century.

The 250 Observation or History of Famous and Rare Cures, &c.

A Quartane Ague.

A Woman forty years old, lying sick in the Hospital; had been troubled four Moneths with a Quartane-Ague. On the 10. of *January*, 1645. She took twenty grains of my Feaver-Frighter, had six stools, and the next day instead of her Fit, she had certain pains and inquietnesses, without any shaking or coldness foregoing, and without sensible heat. On the day of the following fit, the same inquietnesses returned without any fit. The day after she was purged with a Medicament of half an ounce of *Senna*, three drams of *Diaphenicon*, and one ounce of Syrup of *Roses*: it gave her seven stools, and after that she had neither Ague-fit, nor any inquietness.

The 251 Observation or History of Famous and Rare Cures, &c.

A Quartane Ague.

THE Wife of *Lewis Lauter* a Taylor, twenty three years old, dwelling near the Latten Gate, and having been troubled with a double Quartane-Ague five Moneths, came to me the twenty seventh of *January*, 1645. to whom I gave on the twenty eighth day twenty grains of my Feaver-frighter or my Ague-Chaser in the morning, seeing the first fit was expected about the evening; she had six stools, and vomited once about noon, three hours after she had taken broth, and when she began to dine. At night the fit came again without cold, but the heat was longer than ordinary. The second fit came not the day after, nor any more ever after.

The 252 Observation or History of Famous and Rare Cures, &c.

The Dropsie.

A Beggar-man called *Rafeau*, was troubled with a Dropsie three Moneths, whereby his Belly grew exceeding big, and because his poverty would not afford him Physick, he used for a Moneth together by the advice of a Countrey-Woman, a Decoction of the Roots of *Knee-Holme* or *Butchers-Broom*, and was purged twice or thrice with an infusion of *Senna*, and with these Remedies alone was perfectly Cured.

The 253 Observation or History of Famous and Rare Cures, &c.

An Heetick Feaver with fear of a Consumption.

THe Daughter of Msr. *Paschal*, four years old, had for six Moneths together an Heetick Feaver, with a Cough and spittle somewhat rotten, whereupon she was deemed to be in a Consumption, and at last given over by her ordinary Physician, who openly professed that it was an Heetick in the third degree. Her Mother in this desperate case made her keep a thin Diet, whereas before she did eat solid meats, for she took nothing but broths all the day long; and at night some Barley Cream. And twice a week she gave her the Infusion of two drams of Senna in a Decoction of Cichory and Bugloss made with Annis-seed, into which Decoction being hot, the Senna was put, and continued therein all night without any other heat. With this plain way of Cure she was restored in a Moneths space.

The 254 Observation or History of Famous and Rare Cures, &c.

A Quartane Ague.

THe Mother-in-Law of Msr. *Athanasius*, Supervisor of the Salt-Pits, fifty two years old, had a Quartane-Ague six moneths together, and on the 5. of *February* 1645. she took twenty grains of my Ague-Frighter, had two stools, and twice vomited bitter gear after her broth. It was the day before her fit, which returned the next day at the accustomed hour, in the same form and Duration. But the next fit-day there was no appearance of the Ague, nor ever after.

If thou intendest to be able to know and cure all Diseases, Read the *Idea* of Practical Physick, *Riolanus* Guide to Physick and Chirurgery, and my Practice of Physick.

The 255 Observation or History of Famous and Rares Cures, &c.

A Quartane Ague.

L*Udovica Bevonse*, forty years old, dwelling near Holy-Cross Church, and troubled with a Quartane-Ague four Moneths together, took on the 8. of *February*, 1645. twenty grains of my Ague-Chaser the day before her fit, which first made her vomit much very bitter Choller, three hours after the taking of the Medicine; and after her vomiting she took broth, which a little after she vomited up again with Choller not so bitter as the former; and half an hour after she voided by stool store of Humors, having only one stool. The day following she had a Fit like the former; and from that time forward the Ague left her.

The 256 Observation or History of Famous and Rare Cures, &c.

A Quartane Ague.

THe Daughter of Msr. *Boirargues*, Controller in the Court of Accounts, Subsidies and Exchequer, fifteen years old, having a Quartane-Ague three Moneths together; after many Remedies tried in vain, she took the 9. of *February*, 1645. twenty grains of my Ague-Frighter; the day before her Fit she had six stools, the day after her Fit came three hours later than ordinary, and was much shorter than formerly. The Second Fit came not, but instead thereof she had some disquietness. The third Fit came again, but very little: The fourth was greater. She took the Medicine again the day before the fifth Fit, which came somewhat less than usual, and after that she never had it again.

The 257 Observation or History of Famous and Rare Cures, &c.

A Quartane Ague.

Jane Guillard, a Woman of forty years old, being troubled with a Quartane-Ague six Moneths, on the 15 of February, took twenty grains of my Ague-Frighter, the day before her Fit. She had six stools, and did not vomit: The day after her Fit came, but was shorter by half; but she never had it more.

The 258 Observation or History of Famous and Rare Cures, &c.

A Quartane Ague.

A Woman fifty years old, named Morona, Living near the Church-Well, had a most vehement Quartane-Ague seven Moneths together. The 17. of February, 1645. she took twenty four grains of my Ague-Frighter, had three stools, and vomited once exceeding bitter Choller; her Fits continued, but were much more gentle. After the third fit was past since she took the Medicament, she took thirty grains more of the same, and had twelve stools, and vomited twice leek-coloured Choller mixt with Flegm, and was perfectly freed from her Fits.

The 259 Observation or History of Famous and Rare Cures, &c.

A Quartane Ague.

Andrea Delona, a Maid 13 years old, the Daughter of James Delon, Gardener to the Fryars Minorites, having had a Quartane-Ague four Moneths, took on the seventeenth of February, 1645. twenty grains of my Ague-Frighter: She vomited twice, but had no stool; Her fits continued as before. After the third fit, viz. the three and twentieth day of the same Moneth she took twenty four grains of my Ague-Frighter: It purged her five times by stool, but not at all by vomit, and so her Disease was quite cured, she never having any fit afterwards:

The 260 Observation or History of Famous and Rare Cures, &c.

A Quartane Ague.

Mary Delona, Sister of the aforesaid Maid, being eleven years old, had the same Ague as long; she took the seventeenth of February, 1645. sixteen grains of my Ague-Frighter, had three stools in the same day, and two the day after, and was perfectly cured.

The 261 Observation or History of Famous and Rare Cures, &c.

A Quartane Ague.

The 2. of March, 1645. Antony Bayle, a Man fifty years old, dwelling near St Anns Church, and having had a Quartane-Ague five Moneths, took twenty grains of my Ague-Frighter, had three stools, without any vomiting or Stomach-sickness, and without any trouble. The day following the Fit came but half so big as formerly, and after that he never had it more.

The 262 Observation or History of Famous and Rare Cures, &c.

A Quartane Ague.

THE most renowned M^r. de Liffine, Councellour in the supreme Court of Accounts, Subsidies and Exchequer, having had a Quartane-Ague seven Moneths; having tried many Remedies in vain, and being fallen into a Cachectick disposition, which made him fear a Dropsie, because in his fits he had drunk abundantly, and would drink six or seven pints of Water; took on the eighth day of *March*, 1645. twenty grains of my Ague-Frighter, wherewith he was purged at least twelve times in twenty four hours, and he vomited three or four times: all which he endured without trouble. On the ninth day of the same Moneth, the fit which had wont to return about noon, came not till seven in the evening, without cold and with less heat intensively, but more extensively: The Tenth day which followed the fit he was well. On the eleventh day in the morning he was taken with an extream pain, very like the Cholick, which possessed his left *Hypochondrium*, with bleeding at the Nose, whereby he voided about four ounces of blood. The pain being sometimes more intense, otherwhiles more remiss, continued all day with a continual desire of going to stool. Howbeit now and then he voided some evil humors; about the evening he had a troublesome provocation to make Water, and his Urine scalded him at the end of making the same. On the twelfth he was well all day long, and his fit which was then expected returned not. On the thirteenth day he made many Urines extream black like ink, with a thick and very black sediment. On the 14. day a pain in his left *Hypochondrium* came again, coming by fits. It became intensive the fifteenth day, and then it was plain to discern, that the pain was in his Spleen, by reason of the stretching out and puffing up of that part which did not before appear. Fomentations were applied to the part affected, and Clysters were injected, whereupon followed a gentle Loosness, the waies being opened, and the matter made thin, which being retained, did cause the pain. On the sixteenth day he took an Infusion of two drams of *Senna*, with a scruple of salt of Tartar. He had three stools: But taking the same again the next day, he had five stools, and was thereupon better. Howbeit the days following he had some shiverings, viz. On those days in which his Fits were used to come, till on the third fit-day he had a perfect fit, but lighter than the former. He took again the Infusion of *Senna* two days together, wherewith he was indifferently purged, and yet his fit came like the former fits. On the first day of *April* he took my Feaver-frighter again in the same quantity as before, he had three large stools, but never a vomit. On the second day a Fit came like the former. On the fifth day of the same Moneth, the expected fit came not. On the eighth day he had again a very small Fit. On the eleventh day he had a fit stronger than the former, so that the Feaver seemed to return to its former state. Therefore on the thirteenth day he took my Ague-Frighter again, the dose being doubled, which purged him abundantly two days together, and from that time forward his fits never returned.

The 263 Observation or History of Famous and Rare Cures, &c.

A Bastard Pleurisie.

ON the eighth day of *March*, 1645. the Wind suddenly passing out of the South into the North, and making the Weather very cold, I began to be pained in the mornings with a most grievous pain in my left side and my Breast, from whence extream shortness of breath did arise. Which I presently endeavoured to discuss with hot Fomentations, though a Feaver began to shew it self, which was nevertheless very small. The Fomentations made my pain more violent, whereupon I sent for the Chyrurgeon, and took away ten ounces of blood from my Arm on the same side, the blood seemed to be very hot. Two hours after blood-letting, and an hour after I had supped some broth, I received a Clyster; After I had taken broth the second time, I was again let blood to twelve ounces. For though the pain seemed to arise chiefly from Wind; yet I feared lest the grievousness of the pain should draw a fluxion to the part which the year before had been twice diseased with a true Pleurisie. Herewith the pain was somewhat

what abated. Yet because it continued, the day following I took another Clyster made of an emollient Decoction, with an ounce of *Diaphanicon*, and four ounces of *Aqua Benedicta*, by which my belly was plentifully loosened, and I had one vomit; also while I was vomiting, the Wind contained in the part about my Chest was suddenly expelled; so that after my vomiting, I felt my self perfectly freed from the pain of my side and Breast, and had no need of other Remedies.

The 264 Observation or History of Famous and Rare Cures, &c.

A Quartane Ague.

ON the twelfth of *March*, 1645. *John Rey* a Lanthorn-maker, dwelling in *Lapeyre-street*, and troubled six Moneths with a Quartane-Ague, took twenty grains of my Ague-Frighter, and was therewith twice purged by stool, and vomited many wheyish and cholerick Excrements. The day following, which was the thirteenth of the same Moneth, his Fit came at the wonted hour, but less than formerly. On the sixteenth day, instead of a Fit, he had a small heat without any cold. On the nineteenth day, when his Fit was expected, there was no appearance of it, and from that time forward he had it no more.

The 265 Observation or History of Famous and Rare Cures, &c.

A Quartane Ague.

ON the 17. of *March*, 1645. a Woman of forty years old, named *Mary Courbiague*, dwelling against the house of the Lord of *Argencour*, a poor body, and keeping an exceeding bad Diet, and frequently drinking store of Wine, had been two years troubled with a Quartane-Ague; she took twenty grains of my Ague-driver, being no way prepared thereunto; for she would take no preparatives, only she was let blood a few days before. She had twenty stools, because her body was very impure, and she vomited twice or thrice; the day after she had a light Fit, and never any more.

The 266 Observation or History of Famous and Rare Cures, &c.

A Quartane Ague.

THE same day, viz. the 17 of *March*, a Woman forty years of Age, called *Tonette Boxsiere*, the Widow of *John Alquier* a Taylor, dwelling near the foresaid *Mary*, and having been troubled seven Moneths with a Quartane-Ague, took twenty grains of my Ague-Frighter, was seven times purged by stool, vomited four times, & the day after in the morning she had three large stools more. The same day her Fit which was to come at three in the afternoon, came after midnight, but with a light cold and light Heat three or four hours; whereas before, the Fit was wont to continue most violent, for fourteen hours together.

The 267 Observation or History of Famous and Rare Cures, &c.

A Double Tertian.

PETER *Palat*, 15. years old, lying at the sign of the Silver-Eagle, being troubled forty days with a double Tertian, after blood-letting and purgation divers times repeated, and many Juleps given him by order of another Physician; he took the eighteenth of *March*, 1645. fourteen grains of my Fever-Frighter, was purged six times by stool. He took the Medicine at

at four a Clock in the morning, notwithstanding his Fit was to come at eight; at which time it came after the old manner, but he never had Fit after that.

The 268 Observation or History of Famous and Rare Cures, &c.

A Quartane Ague.

THe most Noble Prince *Janethnius Doria* of *Genoa*, Admiral of the Spanish Fleet, his Gally being by tempest cast upon the shores of *Catalonia*, he was taken by our Souldiers, and brought into the Castle of *Montpelier*, where abiding two years, the Summer last past he fell into a Tertian-Ague, which held him four Moneths, sometimes in manner of a simple Tertian, otherwhiles like a double Tertian, notwithstanding all the Remedies prescribed by his ordinary Physicians, and others called to consult with him, amongst whom I was sometimes called. At last the Winter coming in, his Tertian-Ague turned into a Quartan; for three moneths together two Physicians one after another did their best endeavours to Cure the same. At last the Disease continuing, he implored my help, and I gave him on the 17. of *March* 1645. twenty grains of my Feaver-Frighter. Three hours after he had taken the Medicaments, he twice vomited wheyish Humors, and went not to stool all day. About midnight he had one plentiful stool, and the next day two. The same day his Fit was expected at six in the Evening, but it came not then, nor ever afterwards, and he attained thereupon his perfect health.

The 269 Observation or History of Famous and Rare Cures, &c.

A Catarrh with a Cough.

THe 4. of *April*, 1645. When by reason of a long Catarrh, I was troubled with a troublesome Cough, which was most violent in the night, and I purged divers times to no purpose. I took three grains of *Laudanum*, which allayed my Cough. But it returned two days after through injury of Air, which was one day very hot, and another day upon the blowing of the North-Wind very cold. On the eighth day of the same Moneth I took two grains of *Laudanum*, and my Cough went quite away.

The 270 Observation or History of Famous and Rare Cures, &c.

A Quartane Ague.

MSr. *Pichory*, a Councillour in the Court of Accounts, Subsidies and Exchequer, was freed from a Quartane-Ague by a very rare chance. Having had a Vein opened, a little after the Orifice was closed, and his Arm bound up, little drops of Transparent Water began to flow out of the Wound, which soaked through the Rowler, and made him oft to change his shirts. The said flux continued for many days, till the Quartane-Ague was quite gone. It is observable, that many years after he died of a Dropsie.

For the Knowledge and Cure of all Agues or Feavers, Read my Practical Physick and the *Idea*.

The 271 Observation or History of Famous and Rare Cures, &c.

Obstruction of the Oesophagus.

ACertain hunger-starved Countryman eating of a boyled Hogs-foot, swallowed a great piece thereof, in the middle of which there lay a bone covered with flesh. Which by reason of it

its greatness and clamminess stuck in his Gullet and was glewed thereunto, so that neither vomiting nor supping down of any liquor could remove it. For two days he remained in this condition in so great extremity, that he seemed ready to give up the ghost. A certain Chyrurgeon doubled the end of a piece of wire like a fish-hook, thrusting it down his Throat, with the Hook he took hold of the piece of flesh, and by main force pulled it out.

The 272 Observation or History of Famous and Rare Cures, &c.

A Quinsie.

A Man being taken with a true Quinsie, had the top of his throat so shut up by the inflammation, that he could swallow nothing. And while Remedies might be used to restore his strength, that he might be able to bear plentiful bleedings and other Remedies; a Catheter was put into his throat, and a Syringe joyned to the Catheter, by which means they squirted brothes into his throat which went down into his stomach, as also other Remedies by help whereof he was delivered from death.

The 273 Observation or History of Famous and Rare Cures, &c.

Jaundice.

A Jesuite was troubled with the Jaundice and a weakness of stomach, by reason of Choller flowing back thereinto, whereupon he frequently vomited. The Colledge Apothecary gave him three ounces of Juyce of Fumitory: At the first giving, the vomiting was staid; and the Remedy being continued for some dayes, the Jaundice were quite cured. This Jaundice was caused by an hot distemper of the Liver, joyned with obstruction of the Choller passage. Now Fumitory is very good in both Cases, whose vertues are much more potent in the Juyce than in Decoction.

The 274 Observation or History of Famous and Rare Cures, &c.

A Cruel Catarrh with divers Complications of Feavers.

THE first of May, 1645. I was called to the Lady of Beaufort, lying sick at her mother Madam du Pelous House in the Castle of Bayart, not far from Rhodanus. She was thirty five years old, of a Sanguine Complexion. For an whole moneth she had been troubled with a cruel Catarrh with a continual Feaver, to which were added fits of an Ague, which came twice a day, viz. At ten in the morning, and six in the evening; with these a most vexatious Cough did trouble her night and day, with which she brought up abundance of crude flegm, and could take no rest; in a moneths time she had been five times let blood by order of Dr. Chaumel, her ordinary and most expert Physitian; she had been thrice purged, and many other remedies had been used, of which one did her the most good, viz. A Bolus of three grains of Laudanum, with Conserve of Roses, which for twelve hours did quite stop her Catarrh, and Cough, and she said she was cured, by reason of the great ease she found. As soon as I saw her, in consultation with two other Physitians, I judged her Disease to be a continual Feaver, complicated with two double Tertians. As for Remedies, that she was to be let blood in her left Arm, seeing she had a pricking pain in her left side, with a very strong Feaver, blackness of her Tongue, and a continual Cough. On the first therefore of May, about evening she lost nine ounces of blood, and a cooling and thickning Julep was given her. She passed the night with somewhat less trouble; the next day in the morning, which was the second of May, seeing the Feaver continued yet strong, she was again let blood eight ounces, whereupon her Feaver was abated, and the pain of her side went away. About the evening the same day, she complained of a pain in her right side; which

which growing still greater and greater, was very sore about nine a Clock at night, wherefore we were compelled the same hour to let her blood in her Arm on the same side; whereupon her pain was abated, and in the course of that night went quite away, howbeit the night was troublesome, she was void of sleep, and did Cough almost continually. Her Ague fits went quite away; One after a purging medicament the day before I came to her. The other by reason of her former blood-letting: but her continual Feaver stuck by her after the same manner as formerly. On the third day of the same month, seeing her Cough and Feaver were vehement, we gave her before noon half the foresaid Bolus, made of three grains of Laudanum, which was ready made, which within an hour did stop her Cough quite, and she was in a good condition till midnight; howbeit her Cough returned by fits, wherewith she voided thick, clammy and very putrid flegm; so that much of her spittle was yellow and green, the Feaver continuing very violent. And because in the evening the Cough did exceedingly trouble her, and she was extream unquiet, the other half of the Bolus was given her, wherewith she past the night quietly, but slept very little. On the fourth day in the morning her Cough returned, but it was very free, and she brought up much putrid matter, some of which was a little sprinkled with blood. After two hours her Cough ceased till noon, and then it came again bad enough, and when it had held her a great while, and much afflicted her, and her spittle appeared more crude, so that it seemed to come from a new defluxion, the half of another Bolus made of three grains of Laudanum was given her, with which her Cough was again allayed. Her belly was loose in the morning, and she had two stools of many cholerick and greenish excrements; whereas before her body was alwaies bound, and Clysters wrought very little. About evening a Clyster was given her of a decoction of half an ounce of Senna, with Catholicon and Diaphænicon, of each one ounce; which gave her four stools, and in her last stool she voided much flegm of a greenish colour like that she was wont to bring up by Coughing. After she had voided her Clyster, she slept quietly three hours, and said she had not slept so sweetly all the time of her sickness. At ten a Clock in the night her Cough being somewhat returned, she took a fourth part of the foresaid Bole, which did not contain half a grain of Laudanum, yet it stopt her Cough, and she rested quietly that night. On the fifth day in the morning she took a purging medicament of half a dram of Senna infused in a Pectoral Decoction; wherein being strained, two ounces of Manna were dissolved. And the same day I left her, having seriously debated with her ordinary Physitian touching what was afterward to be done, and committed the same to Writing. Wherewith, in the space of twenty dayes after my departure, she was restored to her former health. The chief of those Remedies were pectoral Broths, continual blood-letting, and purgation repeated. But the Bolus of Laudanum bore away the Bayes, which being given her many dayes in a small dose, all the symptoms were thereby allaid.

The 275 Observation or History of Famous and Rare Cures, &c.

A long swelling of the right Foot.

A Noble Matron, Wife of the most noble Msr. *de Langon*, fifty years of Age, had a flegmatick tumor with extream pain in her right Foot, the Original whereof was thus. Travelling upon a time on Horse-back, the Horse she rode fell upon the ground, and in his fall tumbled on the right foot of the said Maton, and by the blow her heel was depressed, and thrust from the inside of her Foot outwards. Whence grievous pains followed, so that she could not stir: Many Chyrurgeons and Empericks had divers times vexed her, nor could the dislocated bone be any wayes restored to its place, whereupon she was continually tormented with pains, inability to go, and a flegmatick tumor in her said Foot. She had been four months in these straits when I visited her, which was the twentieth of May, 1645. Diligently viewing and considering that part affected, I found a small dislocation remaining, which had contracted a Callous, and was therefore incurable. I found that the chief pain was in the hollow of her Foot, not in the part dislocated; because the Nerves in that place were filled with humours. And therefore to cure the same, the flux of humors to the weak part was to be stopped; the humor already

ready in the said part was to be dissolved, and the part it self to be strengthened. All which was accomplished in eight days space by these following Remedies.

Take Salsa-parella four ounces, Fountain water four pints; infuse them twenty four hours, and then let them boyl till half be consumed, adding towards the end Senna one ounce, Turbith and Hermodacilis, of each two drams. Let her take half a pint of the strained Liquor in the morning, eight days together.

Take Oyl of Wax one ounce; anoint the part affected therewith morning and evening, and then apply this following Plaster.

Take of the Mass of Diapalma Plaster dissolved in harsh red Wine, till the Wine be consumed, half a pound; Red Roses, Myrtles, Mastich and Tartar of Red Wine, of each one dram. Groundpine and Chamomel powdered, of each two scruples; make all into a Mass, and thereof spread Plaisters, and lay them all over her whole foot after anointing. With these things the swelling and pain were taken away, only she was forced to halt, because of the dislocation of the Bone.

The 276 Observation or History of Famous and Rare Cures, &c.

Meazles.

The foresaid Matron, Madam de Langon, was taken with a continual Feaver, with a Cough and Hoarsness, the 26. of June, 1645. For three days together the Symptoms were not very urgent; and therefore she past that time without any use of Physick. On the fourth day her Feaver becoming more violent, she was let blood, and a cooling Julep was given her. The same day her whole body was covered with Meazles; I being called the fifth day, I appointed her towards the Evening a Julep of equal parts of Meadow-sweet water, and of Carduus Water, with twenty grains of *Bezoardicum Minerale*. Two hours after she had taken her Julep, she did sweat abundantly; after her sweat, she had a large stool. The day after in the morning the same Julep was repeated; and she did sweat more plentifully after two hours, and her Feaver went quite away, and the Meazles were all well dissolved.

The 277 Observation or History of Famous and Rare Cures, &c.

Stone in the Kidney.

A Certain man, fifty years of Age, being very much subject to pains in the Kidneys, took for twelve days a Decoction of the Root of Asles Thistle and Liquoris, wherewith he voided many stones, and much Gravel, and was afterwards many years free from his Infirmary. There was half an ounce of the Thistle Root, and two drams of Liquoris in every dose.

The 278 Observation or History of Famous and Rare Cures, &c.

The Disease Cholera in a malignant tertian Ague.

A Certain young man, of a Cholerick Constitution, in the middle of the Summer fell into a Tertian Ague, which in the two first fits seemed pretty gentle, but in the third fit, so great was the malignity and fierceness of the Cholerick Humor, that a vomit and frequent looseness being thereby raised with mighty weakness, the Patient was in extreme danger of his life. Being sent for, I presently prescribed him a Clyster of Broth, with three drams of Confectio Alkerimes, and a dram of new Treacle, wherewith, his vomiting and looseness were presently stopped. And because in these malignant Feavers, these carnal Symptoms are wont to return every fit kill the Patient in the second or third fit, for prevention thereof, I ordered him a thick

ning Diet, and to take four grains of *Laudanum* two hours before his fit; and so the foresaid symptoms did not return, the fit was light; and the Cure was finished with cooling, thickening and antidotary Juleps.

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Suppression of Child-bed Purgations.

A Certain curious Woman, three days after she was brought to bed, desiring to help the over-wideness of her genital parts, applied thereto astringent Medicaments, whereby her Child-bed Purgations were stopped, and blood was so multiplied in her Womb, that pressing upon her *Rectum Intestinum*, and the neck of her bladder, it hindred all Evacuations, and her Belly was swelled like a bottle. Being called to her, first I caused a Catheter to be thrust into her bladder, and she voided abundance of Urine; after that I prescribed her a sharp Pessary to be put into the Neck of her Womb, wherewith her Purgations came away plentifully; and lastly she had a laxative Clyster, wherewith she voided much dung; and so all her passages were opened.

For all Womens Diseases, carefully peruse *Johnstons Idea*, and specially *Riverius*, on that Subject in English.

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Night-Sweats.

A Man forty years of Age, of a Melancholick Complexion, was a long time troubled with Night-Sweats, which did continue four or five days, and then ceased. And they returned twice or thrice a Moneth. It was sufficiently apparent, that these sweats did proceed from abundance of serosity, which was collected between whites, and by nature afterwards expelled in form of sweat. Wherefore being poor, and not able to take much Physick, I advised him to take twice a Moneth Jallap and Cream of *Tartar*, of each half a dram. Which having continued for the space of three Moneths, he was freed from his tedious infirmity.

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The Whites.

A Woman forty years of Age, long troubled with the Whites, after many Remedies used in vain, was perfectly Cured with a Laxative Ptisan, which she drank of every day for a Moneth together. This was the Composition of the said Ptisan.

Take *Senna* one dram, *Coriander seeds* prepared and *Liquoris*, one dram and an half of each: *Fountain water* in which three drams of *Tamarinds*, and a dram of *Lentisk wood* have been boyled, one Cup. Infuse them cold all night, and in the morning let her drink the strained Liquor two hours before meat.

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Of a Rupture of the Belly.

A Man fifty years of Age, had a most grievous Rupture in his Belly, for four days together, which could by no means be helped. Being called to him, I found his pulse very languishing, with coldness in his Hands and Feet. Also the part affected was very cold to feel to, so that I feared its Mortification. Among other Remedies, I prescribed a Fomentation of hot *Aqua Vita*,

Vite, to be applied to his Groin, which being continued for two hours, his Gut was gently restored to its place, and the Patient freed from eminent destruction.

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An Hysterical Passion.

A Woman twenty years of Age, of a Cholerick Complexion, being troubled with Hysterical Fits, and having a ruddy Face; a Clyster being given her of Water and Vinegar, she was presently freed, and needed no other Remedies.

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A Dysentery.

A Certain man troubled with a Dysentery, and refusing all other Remedies, used only a Decoction of Burnet made with Water and Butter, of which he drank a Porringer full at morning and night, and was cured within three days. Burnet is exceeding powerful to purify the Blood, and has a light astringent with it; and therefore 'tis no wonder if it help the bloody flux.

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A Schirrous Tumor of the Sweet-bread, with the Hypochondriacal Disease.

THe most illustrious Msr. *Audeyer*, President in the Senate of *Grenoble*, being fifty seven years old, was tormented with most grievous and contumacious Infirmities; the Nature whereof, that it may be more exactly discovered, I must set down a bead-rolle of those Infirmities briefly, with which he was conflicted now this twenty years.

And in the first place, it must be known, that he was of a Melancholick and Cholerick Complexion, of a thin and lean habit of Body. At the first beginning of his Maladies was Arthritick pains, which began to infest him by fits since the year 1622. And after them followed certain light fits of the Falling-Sickness, which did first invade him about the year 1626. And returned by fits, and within the space of two years they quite left him. At the same time his Arthritick pains returned upon him again, which stirred not all the time he was subject to fits of the Falling-sickness.

Now these Arthritick pains did vex him twice or thrice every year, so that sometimes for two or three Moneths he was nail'd to his bed, with very little help from divers Remedies which were used; especially observing, that he had little good by often bleeding, rather that his pains were thereby always made more sharp.

But after that, for eight years together, viz. from the year 1631. to the year 1639. he had been exercised with these pains by fits; he afterwards fell into more grievous Infirmities, by reason of extreme grief taken at the death of a noble Court Lady near allyed to him in the bonds of affinity and friendship and very useful to him in his Affairs. Whereby he was first taken with an involuntary motion of his Eye-lids, which continued very long, whereby his Eyes by fits were sometimes opened, and then shut again; so that it was as it were a certain trembling of those parts,

Parts, with which trembling, his Hands and Feet are many times taken, though very lightly.

At the same time he was vexed with pains in his joynts for the space of three Moneths, so that he was not able to walk for six Moneths after. And being then at *Paris*, he used the Ville-Comitan Waters by the advice of Dr. *Delormeus* a renowned Physitian, which did exceedingly cool his stomach; and after that a very troublesome and scabby Itch did molest his whole body, which was presently cured by an Oyntment (of Mercury I suppose) applied to his wrists and the soles of his Feet, by advice of Dr. *Labrosse*, a Physitian of *Paris*; after which anointing there followed a mighty looseness for twenty days together, with most grievous gripings of his belly; so that sometimes he had a shew of the Bloody-Flux. The weakness in the mean time of his Feet and Legs continuing, made him unable to go for an whole year. And at the same time his mind was exceedingly busied both in perusing Books and Papers; and much agitated and tossed with extream passions, and extraordinary sadness at the ill success of his business, which may justly be thought to have occasioned the following infirmities.

In the year 1640. he fell into a grievous shortness of Breath, and straitness in his Breast, with a certain pain in the region of his stomach; which Symptomes did exceedingly trouble him for fifteen days together, and afterwards were much abated; but after some space of time they seemed to gather new strength, so that to this very day he is troubled with them, sometimes more, and sometimes less.

For the quelling of this stubborn Disease, various Medicaments have been by sundry Physicians prescribed for four years together; various Purgations, by Apozems, Potions, Syrups, Laxative Ptisans, and the like. To which were added frequent Blood-lettings, Issues, Vesicatories, opening of the Hemorrhoid-Veins, Baths to sit in, Physical Broths, chalybeated Whey, Milk, Sulphurous mineral Waters, as those of *Borbon* and *Digne*; also vitriolated Waters, as those of *Orleanse*; roborating the Aperitive Opiates, pectoral Syrups, and many other things, which being used at sundry times in the space of four years, did sometimes much, otherwhiles little ease the Patient. But his habitual Disease did still keep its Course, and the illustrious Patient is still troubled with the same Infirmities.

And I being called to visit him about the beginning of *May*, 1644. I conceived the Cure was to be directed to those two remarkable Symptoms fore-cited, viz. the straitness of his Breast, and his difficulty of Breathing, whose causes are first to be considered, wherein the greatest difficulty, with extream obscurity seem to lie. For that some shortness of Breath does not seem to be any true Asthma or Tisick, nor to proceed from any defluxion out of his Head into his Lungs, though some excellent Physicians did go about to cure him as one Asthmatical; for he has no Cough, no wheezing, nor does he spit up any flegmatick Humor. Secondly, his difficulty of Breathing, is in a moment stirred up by the Procatactick Causes, and goes away in a moment; so that if he move himself a little more vehemently than ordinary, or is never so little angry, presently he is troubled with shortness of Breath, and by and by he attains his freedom of Breath again. Thirdly, though he is chiefly troubled with this Symptom in the evenings and nights, so that he is fain to sit upright in his bed till midnight; yet as soon as he begins to fall asleep, his shortness of Breath quite vanishes, and he lays his Head down upon the pillow, and sleeps the rest of the night so quietly, and breaths so freely, that it is easie to see that there is a Disease in his Lungs.

The Immediate Cause thereof of his shortness of Breath must be sought else-where, viz. in his Belly, the parts wherein contained, being troubled with grievous Diseases, contain in them the Original of all his infirmities.

This is in the first place demonstrated, by that sense of pain and straitness, of which our noble Patient perpetually complains, and shews the seat thereof to be under his midriff, and about the Region of his stomach: And as often as he is troubled with shortness of Breath; that same pain, straitness and oppression (as he calls it) is still encreased; and when the said oppression encreases, the shortness of breath comes: so that it is manifest, that the one depends upon the other. And I diligently enquiring into the cause of that pain, straitness or oppression, and feeling the Region of his stomach; I found it pliable enough, as long as I held my hand lightly upon it; but pressing my hand harder, I perceived a certain hardness and resistency deep under the bottom of his stomach, which I conceived to be in the Pancreas or sweetbread, which I conceive was swelled with an hard and Schirrhous Tumor; and seeing the Pancreas is placed under the *Diaphragma*, it is no wonder that it being swoln, should compress that part which

which chiefly serves for respiration, and hinders the free motion thereof. Yet verily this cause found out by feeling, does not quite satisfy our doubt; for if the shortness of breath should wholly depend thereupon, it should be perpetual, and not come by fits, nor should it be so easily caused by external occasions, as commotion of the Body or Mind. This reason verily is so convincing, that some other cause must be joyned thereunto, viz. some thin matter, which is soon moved and soon quieted. Now what that matter should be, and what seat it should precisely possess, is not easily determinable. Yet I may with these most excellent Physicians, who undertook the cure of the Patient, assert the most probable reason to be, certain vapours in and winds arising from his Spleen and Stomach. Now this Commotion of winds and vapours in his stomach is hereby easily discerned, in that the noble Patient is wont to be more grievously troubled with the foresaid symptoms after his meales. For from hard and laborious digestion in a weak stomach, many winds are bred, which distending the stomach, compress the Pancreas and Midriff, whereupon greater shortness of breath is wont to arise some hours after his meals. Moreover, in the greatest changes of the Air, when the Wind shifts from North to South, the foresaid symptoms are most troublesome, because by such a mutation of the Air, Rheumatismes are caused, which at other times were wont to cause pains in the joynts, and do now flow into the inner parts weakened by long distempers and obstructions, and exagitate the bad humours in them contained; or by the moistness of the Air the humours are puffed up, and as it were fermented; whence a vapor arises, which seizing upon the Diaphragma and Lungs, breeds a straitness in the breast, and a difficulty in breathing.

If the Symptoms may be preferred to any kind of Disease, I conceive they belong to that sort of Melancholy, which is termed Hypochondriacal; seeing they had their first original from a grievous and long sadness, in a body hot and dry; whence arose a great mass of Melancholy humors, which bred stubborn obstruction in his Hypochondria. Yea verily, and although the Scurvy which is frequent in Northern Counties, is not usual in this of ours; Yet this Disease seems to approach unto the nature of the Scurvy, seeing the two symptoms aforesaid, viz. straitness of the Breast, and shortness of breath, are most frequent Symptoms of that Disease, as *Severinus Engalenus* has noted in very many Observations; in whose County that Disease is most frequent: and in imitation of him, *Daniel Sennertus* in his Book of the Scurvy, Chap. 4. where he propounds the signs of that Disease, and in the 9. Article of the said Chap. does so describe these two symptoms, that he seems to describe the condition of our illustrious Patient to an hair.

And although (as has been said) the Disease called the Scurvy is not usual, and hardly seen in these Countries of ours; yet I (to neglect nothing in the Cure of so great a Disease) presently used the specific Remedies belonging to that Disease, mixed with others that were good to open Obstructions, and correct and expel melancholy humors. And therefore, in the first place, I gave him the juyces of Water-Cresses, Brook-lime and Fumitory for many dayes together, mixing therewith Salt of Tartar and Spirit of Vitriol, also frequently infusing a little Senna; and so thick, clammy Tartarous Humors were purged out by little and little. And sometimes I mixed the foresaid Juyces with Decoctions of Elicampane, Bark of Tamarisk, Leaves of Agrimony, Wormwood and Burnet. By which Remedies continued from the 7 of May, to the 28. thereof, our Patient seemed much holpen. And the Weather happening upon that day to turn from dry and clear, into thick and rainy, by reason of South Winds, the foresaid Symptoms came all afresh, which continuing to the third day of June, by two blood-lettings a little at a time, they were much abated. From that time forward he used Salt of Steel or Vitriol for a whole month together, which is of admirable force to open Obstructions, strengthen the Bowels, and to correct their hot distemper. Howbeit sometimes, viz. every third or fourth day I gave him small Purges of Senna infused in the foresaid Decoction, and sometimes Chalybeate Pills; and I gave him Chalybeate Water to drink ordinarily with thin small Wine. Which being continued (as was said) for a month together, the noble Patient was brought into much better condition; so that he which before could not travail either on Horse-back, or in a Coach without great trouble, could now endure a Coach running apace, and on Horse on a fast amble. Moreover, the vigor of his whole Body, and the colour of his Face were much restored. And this is especially worth Observation, that the noble Patient was very much hurt by Baths to sit in, and Fomentations applied to the Region of his Belly, and brought into an extream shortness of breath: so that we were fain wholly to abstain from the use of them, although very necessary for this Cure.

These things were done the fourth of July; at what time I procured leave of the most illustrious President to depart, and returned to Montpelier, leaving him written Directions for what was afterwards to be done.

After my departure, through the whole course of Autumn, and the Winter following, he used the foresaid Remedies by course, and at fitting distances of time, by order of the most renowned Dr. John Mathew, his ordinary Physitian, viz. the Salt of Steel, Pills of Steel, and an infusion of Senna made with the foresaid Decoction, with Salt of Tartar and Spirit of Vitriol; to which was added a strengthening Opiate and Aperitive, prescribed by me before my departure. And when as after some months there was a great abatement of Symptoms, I advised him by Letters, to try the Fomentation and Bath to sit in, for it was to be hoped, that the morbid causes being very much diminished, there would happen less commotion of humours, which did hinder the use of the said Remedies. The matter succeeded according to our wish, and he bore the Fomentation without any trouble, which did him much good. And the Spring following, he used not only the Fomentations, but also the Baths to sit in, and diligently continued the foresaid Remedies, some others being thereunto added, with which at last (blessed and praised be God) he was brought to a state of perfect Health.

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The Dropsie Tympanites.

THE most renowned Matron, the Wife of Dr. de Guere, Doctor of the Civil and Canon-Laws, thirty years of age, of a Chollerick Constitution, was troubled for ten moneths with a sufficiently great tumor in her belly, joyned with great stretching, so that it was just of the nature of a Dropsie Tympanites. The first Original of this Disease was chiefly ascribed to the Patients going in a cold Bath, being troubled with the Whites: whereby they were stopped. To which were added divers errors in Diet. She used many Remedies during the time aforesaid, prescribed by most skilful Physitians, viz. Potions, Apozems, and Aperitive and Diuretical Juleps, Opiates strengthening the Liver, and many other things to no purpose. At last, about the end of May, in the year 1645. she did commit her self to my Care, whom I undertook with these following Remedies.

Take Roots of Asparagus, Knee-holme and Cichory, of each half an ounce; Roots of Elicampagne and Parsley, of each two drams; Leaves of Agrimony, Ceterack, maiden-hair, of each half an handful; Of the two Wormwoods, of each half a pugil. Boyl them to six drams; in the strained Liquor, infuse all night cold Senna one dram; Diuretick Salt one dram, Diuretick Spirit thirty drops. Let her take it in the morning six dayes together, and order her self accordingly. She had four or five stools every day, and voided a clammy matter ash-coloured. After the second dose she was let blood eight ounces; At the end of her Apozems, she took pills of Calomelan twenty grains, and as much Diagridium, which gave her seven stools; and the day following the Tumor of her Belly seemed abated, which yet began about evening to be puffed up again. The Tumor settling, as I felt her Hypochondria, I perceived a very great and painful stretching about the Region of her Stomach, in which respect I prescribed (with continuation of the Juleps) an Emollient Fomentation and Aperitive, to be applied every day to the whole Region of her Hypochondria, for also no small tension was likewise perceived in her right Hypochondrium. Which being used four dayes together, her monthly Courses appeared, which had been wanting for some months before. And because they flowed but slowly, after three dayes the Fomentations and the Apozems, leaving out the Senna, were used again. By which a moderate quantity of her Courses was procured, and from that time forward the Tumor of her belly seemed wholly dissolved. Hereby, to ratifie the Cure, I prescribed her the usual Aperitive and Laxative Pills, to be swallowed twice or thrice a month, or also a strengthening Opiate and Aperitive, to be used every day for an whole moneth.

And after this manner, the rest of his whole Body, and the colour of his face were much relieved. And this is especially worth Observation, that the Patient was very much hurt by Baths to sit in, and Fomentations applied to the Region of his Belly, and brought into an extreme shortness of breath: so that we were fain which The

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A Quartan Ague.

John Goffel of Lorrain, a Master of Arts, dwelling at that time in *Dauphine*, near a Town called *Revel*, with a Gentleman whose Sons he instructed, came to me the 15. of *June*, 1645, that I might help him, having been sick of a Quartan Ague for an whole year. Now examining his *Hypochondria*, I found an exceeding great tension and stretching, with hardness in the Region of his Liver and Spleen; which supposing to be the Cause of the stubbornness and long-lasting of the Disease, I thought best to remove the same, with Aperitive and Laxative Apozems (blood-letting, being premised) as also with Emollient and Aperitive Fomentations: And with Pills prepared with steel. All which things, I ordered him to continue for twenty days together. Then I gave him a dose of my Feaver-Frighter, to be taken after the foresaid Remedies; and because he could not conveniently make use of the Apothecaries, which were sufficiently far from his Habitation; and could hardly bear the charge of Remedies, omitting all the other things, he presently took my Feaver-Frighter; which purged him plentifully. The first fit after the taking of this Medicament was half as little again as the former, and the second less than that. And so the fits growing insensibly less and less, after the fifth Fit, he was quite freed from his Quartan Ague; of which he informed me by Letters, adding, that he was infested with a Cough which remained after his Feaver. To whom I wrote back, That he should use the Remedies prescribed by me before, for the opening of the Obstructions in his two *Hypochondria's*, which I beleived did remain and cause that same dry Cough.

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An old Vomit.

The Wife of Doctor *Antony de Manissy*, a Physitian and Doctor of the University of *Valentia*, being Twenty four years old, was troubled three years together, with a vexatious vomiting, with a pain in the Loyns reaching to the Region of the Spleen. Now she vomited after every meal, almost all her meat and drink mingled with Clammy Flegm: whereby she became extream lean. Moreover she had certain Ague-fits as it were twice or thrice in a Moneth, which continued twelve or fifteen days together. Many Physitians that had consulted about her, did suppose that these Symptoms proceeded from a stone in the Kidneys fixed in their substance, and others said they were Obstructions and Hysterical Infirmities that were the Cause. In reference to all which, sundry Remedies were used to no purpose. Till at last she came to such a Leanness joyned with a slow Feaver, that every one thought she would die of an Hectick. But I being desired by her Husband to prescribe her some Remedies, I conceived the chief original of her Malady to lie in the Spleen, which was both obstructed, and distempered with an hot and dry distemper. In respect of which, sparing blood-letting being premised, I did prescribe these following Remedies.

Take Roots of *Cichory*, *Asparagus*, *Butchers-broom*, and *Bugloss*, of each half an ounce; Leaves of *Agrimony*, *Ceterach*, *Maiden-hair*, and *Burnet*, of each one scruple and an half, boyl them with a Chicken. In the strained broth dissolve Cream of Tartar one dram. Make a broth, which let her take in the mornings for sixteen days together.

In every fourth broth infuse all night cleansed *Senna*, three drams, *Annis-seed* one dram. Let her take it, and be ordered suitably.

Take *Barley* and sweet *Almonds*, of each one pound; let them be bruised and boyled for a Bath to sit in, whereinto let her enter warm, twice a day for three days, after the use of the Broth.

Take Steel prepared with Sulphur, one ounce. Aloes, Senna, Rhubarb, Agarick newly

ly trochisked, of each two drams : powder of *Diarrhodon Abbatis*, half a dram ; Saffron ten grains. With Oxymel simple make a Mass ; of which let her take a dram every morning three hours before meat, and walk upon it. And this let her do for fifteen days together.

The use of these Pills being ended, let the Bath be repeated for four days.

These Remedies used in order, she was freed from the foresaid Infirmities, and restored to perfect Health.

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A Tertian Ague.

THe Maid Servant of *Msr. de Sautereau*, a Senator of *Grenoble*, being thirty years of Age, was held of an intermitting Tertian Ague, and she had suffered fifteen Fits thereof, in the Course of which, she was twice let blood ; and a purge was twice given her, and many cooling Juleps were prescribed and Aperitive, by the ordinary Physitian ; who after the fifteenth Fit gave her twenty grains of my Ague-Frighter on her well day, which was the twenty fifth of June, 1645. She was five times purged by Stool, gently and without trouble. The day after, her fit came much stronger. And from that time forward, she never had fit more.

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Of a Tertian Fever.

M*Sr. de Pourroy*, President of the Senate of *Grenoble*, fifty years of Age, had endured twenty fits of a Tertian Ague, when I was called to him. He was twice let blood ; many cooling Juleps were given him : and *Aqua Benedicta* of *Rulandus*, was twice given him to drink, whereby he voided great store of Choller and Flegm by stool. I being sent for in the twenty one fit, found it very intense, exceedingly afflicting the Patient for twenty four hours together, with extream thirst and great unquietness, which was in conclusion dissolved by sweats breaking forth at the end of his fit. His Urines were red, and as it were flaming, having no signs of concoction. Therefore I ordered him to bleed a good quantity : I prescribed him very cooling Juleps ; and to take Juyce of Lemons in his ordinary Ptisan : and Spirit of Vitriol in the said Ptisan, at the time of the Fit. By which means, in two days space, the red colour of his Urine was much abated, and a light swim appeared therein. Nevertheless, the two and twentieth fit was as long as former, but with less unquietness, which was much tempered by moist Epithemes applied to the Region of his heart. The day following, I gave him twenty five grains of my Ague-frighter, which wrought not all day, save that he had one stool at three a clock in the afternoon, and voided a pretty quantity of Chollerick matter. But the next day at eight in the morning he had another stool, much larger, by which he voided Chollerick and Wheyish Excrements. At nine a clock his fit returned, and was shorter, lasting but eight hours. After the fit he had three stools. This happened the last day of July, 1645. The 1. of August, he had no fit, because it was his well-day. And on the second, when his fit was expected, he had none, so that he seemed cured. Howbeit on the third day, which was his well-day, a new fit came. The day following, which was the fourth of that Moneth, he was let blood, his Urines appeared still red, and after noon, another fit came : so that his simple Tertian seemed to be turned into a double one. On the fifth day of the same Moneth, a fit came like the former. Here those that were censorious had great occasion to insult, because with my Ague-Frighter, I had turned a simple Tertian into a double one. But upon the sixth day I gave him again thirty three grains of my Ague-Frighter, which gave him six stools, and he voided many Wheyish, Chollerick and Flegmatick Excrements. His fit came at the same hour, but somewhat gentler than before. After his fit he had three or four stools more, and the next day in the morning three or four more. And his fit returned not then, nor the days following, and within

within a few days after he returned to his ordinary Employments. And he continued in this Condition for 24 days, in which time he committed many Errors in Diet, which cast him into a Relapse. And therefore on the 30. day of the same Moneth he was taken with a new Fit at two in the afternoon, which held him ten hours. On the last day of the Moneth, another Fit came at four a clock in the Evening, but much lighter than the former. On the 1. of *Septemb.* at ten in the morning a Fit returned like the former. I conceived, that these Fits did proceed from ill Humors newly collected by his bad Diet, which were lightly putrified, the Putrifaction not being firmly fixed in the parts, nor strongly fermented, and that therefore they might be voided by easier Remedies, without making use of my *Feaver-Frighter*. I did therefore prescribe him a purging Medicament of an Infusion of three drams of *Senna* in a Decoction of *Tamarinds*, *Cichory* and *Agrimony*, with *Anniseed* and *Mineral Chrystal*, of each one dram. Adding to the strained Liquor *Manna* and Syrup of *Roses*, of each one ounce; *Jallap* one scruple. He was very well purged, and the following Fit was less. For two days following he took opening and Laxative Broths, and so he was perfectly freed from his Fits, and observing a better Diet, he was reduced to perfect health.

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A Quartan Ague.

A Young Fryar of the Order, of Recollects at *Grenoble*, named *Theotimus*, fell into a Quartan Ague towards the end of *July*, 1645. He had five Fits when I was called to him. He had been let blood, but took no Physick. He took on the 7. of *August* 30 grains of my *Feaver-Frighter* the day before his Fit. He was much purged by stool, and somewhat by Vomit. His Fit came the next day much less than formerly: and after that no more.

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A Quartan Ague.

A Friar of the same Covent named *Pascalius* had undergone ten Fits of a Quartan when I visited him: and I gave her 23 grains of my *Ague-Frighter* on the 25. of *October*, the foresaid year: he had eight stools and two Vomits, and his Disease was Cured thereby.

The 292 Observation or History of Famous and Rare Cures, &c.

A Quartan Ague.

THE Wife of the most Renowned *Msr. de Chappoulay*, the Kings Advocate in the Exchequer at *Grenoble*, 50. years of Age, had been sick of a Quartan Ague 4 Weeks so grievously, that she continually kept her bed, and did eat nothing but Broths, for she was always in a Feaver. On the 1. of *September*, she took 16 grains of my *Feaver-Frighter*, had six stools very gentle, and two more the next day; and her Fit which was to return after noon, was delayed to seven a clock in the Evening, and was much more remiss. But the following days it came no more. And when she began to feed her self, and used solid meats, she did eat unripe Grapes every meal, whereupon she fell again into a Quartan Ague, which became double and treble, I being returned to *Montpelier*. Now it hapned, that in *December* the same year, I was again sent for to *Grenoble*, and then visiting her, I found her grievously oppressed with a Triple Quartan, Whereof I gave her twenty grains of my *Ague-Frighter*, which gave her seven stools and two Vomits. Her Ague returned not that day, nor two days following. But on the 23. day having eaten a liberal Dinner, she was taken with a long Fit. For which cause she took the day following a like quantity of my *Ague-Frighter*, had five stools, never a vomit, and was thereby freed from her Ague.

The 293 Observation or History of Famous and Rare Cures, &c.

A Quartan Ague.

A Woman 50 years of Age in the Hospital at *Grenoble*, was afflicted with a Quartan Ague a whole year together. On the 5. of *September* 1645. She took 20 grains of my *Ague-Frighter*, and was plentifully purged by stool and once by vomit seven hours after she had taken the Medicament. The sixth day her Fit came four hours later, and less than formerly. And after that she had no more Fits.

The 294 Observation or History of Famous and Rare Cures, &c.

A Quartan Ague.

THE Maid-servant of the Wife of *Msr. de Servien*, President in the Chamber of Accounts at *Grenoble*, was troubled with a Quartan Ague five Weeks. The 6 of *September* 1645. She took 16 grains of my *Ague-Frighter* the day before her Fit, and was thereby much purged only downwards. On the second day her Fit returned without cold, later than the former, and continued longer. And the six following days it returned not, and in that condition she remained a whole Moneth. But using a careless Diet after the manner of Maids, she relapsed into her Quartan Ague, which turned first to a double, then to a triple Quartan after my departure. And I returning to *Grenoble* in the Moneth of *Decemb.* I gave her 20 grains of my *Ague-Frighter* on the 23. of the same Moneth, it being a cold frosty season. In the morning she vomited a clammy and glewish matter, in great quantity; and in the Evening she was plentifully purged by stool, and so was quite freed of her Quartan Ague.

The 295 Observation or History of Famous and Rare Cures, &c.

A Double Tertian Ague.

PETER FAIOLE, a Proctor in the Senate of *Grenoble*, and one of the Consuls for that Year, being 40 years old, had a double Tertian 25 days; during which time, he used store of vulgar Remedies by advice of another Physician. I being called the 25. of *August*, 1645. Found him confined to his bed, eating nothing but Broths, and dayly afflicted with grievous Fits. And I gave him 16 grains of my *Ague-Frighter*, which gently purged him by stool, and he was quite freed from his Ague-Fits.

The 296 Observation or History of Famous and Rare Cures, &c.

A Quartan Ague.

ABRIEL PYOT the Servant of *Msr. Mircha* a Citizen of *Montpelier*, being 24 years old, was three Moneths troubled with a Quartan Ague, during which time he used no Remedy, then took of my *Ague-Frighter* 24 grains on the 10. of *November*, 1645. Which was his well-day. He was seven times purged that day without any vomiting, Stomach-sickness or trouble. And the day following he had no stools. His Fit which was expected at five in the Evening, came not till three a clock next morning; his second Fit which was wont to come in the Evenings came not at all; and from that time forward he had no more Fits.

The 297 Observation or History of Famous and Rare Cures, &c.

A Quartan Ague.

THe Wife of *John Alles*, a Chirurgeon of *Montfrine*, 30 years of Age, had a Quartane Ague four Moneths together; and when I passed through that Town about the end of *October*, 1645. I was desired by her Husband that I would prescribe somewhat for her Cure. I found the Woman very pale and lean, not having had her Courses since the beginning of her sickness; and feeling her *Hypochondria*, I found her Spleen very hard, and in a manner Schirrous. And therefore I judged her Quartan Ague could not be cured till those grievous obstructions were first removed. I therefore did first prescribe her a purging potion, and the day after to be let blood. Afterwards I gave her Pills of Steel, Aloes, *Gum Ammoniacum* and other things to be taken for 15 days together; and an emollient Fomentation and Aperitive to be applied to her *Hypochondria* every day during the use of the Pills. Which Remedies being diligently used, the stretching of her left *Hypochondrium* was very much abated, but her Ague-Fits kept their former Course: I gave her therefore 20 grains of my *Ague-Frighter*, and after that she never had Fit more.

The 298 Observation or History of Famous and Rare Cures, &c.

A Quartan Ague.

AN ingenious young man, *Michael Pineau*, a Student of Physick, having been four Moneths troubled with a Tertian Ague, fell at last into a Quartan, which had troubled him six Weeks when he came to desire my help. I gave him therefore 20 grains of my *Ague-Frighter* on the 29 of *November* 1645. That day he had only two stools, and that about Evening. The day following which was his Fit-day, he had ten stools and two vomits, viz. at the hours of Dinner and Supper; and with his meat he voided Cholerick Humors, and had no Fit that day, nor any time afterwards.

The 299 Observation or History of Famous and Rare Cures, &c.

A Quartan Ague.

ADamofel named *Joan Brunet*, ten years of Age, having had a Quartan Ague four Moneths, took 16 grains of my *Feaver-Frighter* on the 29 of *November*, 1645. She was purged five times by stool without any trouble; the day following her Fit returned after its wonted manner; but after that it never came more.

The 300 Observation or History of Famous and Rare Cures, &c.

A Quartane Ague.

BEcause all my Cures of Quartan Agues propounded under divers Titles, would exceed the Limits of this Book; therefore I have comprehended these following under one and the same Title, that I may continue the Series of my Cures. Also what I shall hereafter say of my *Ague-Frighter* may be more evident and illustrious.

When I travelled from *Grenoble* to *Montpelier*, in *October* 1645. passing through *Valentia*, a certain Inn-keeper met me, named *Claudius Bouden*, having had a Quartan Ague three Moneths, against which he had used no Physick, save being once let blood. I prescribed him first
a purging

a purging potion to evacuate the ill Humors residing in the passages, which might resist the Operation of my *Ague-Frighter*; of an Infusion of half an ounce of *Senna*, 3. drams of *Diapb-anicon*, and an ounce of Syrup of *Roses* to be taken the day after his Fit, by which he was sufficiently purged. The day after he took 20 grains of my *Ague-Frighter*, was thrice purged by stool without trouble, and that only about Evening. The day after his Fit returned, much longer than formerly; but after that he had no more.

In the same Journey passing through a Town called *le Bourg Saint Audiol*, Mr. *Henry Chays* a very skilful Chirurgeon desired me to give him a dose of my *Ague-Frighter* for a poor Woman long troubled with a Quartan Ague: I satisfied his desire, and he afterwards told me the Woman was thereby cured of her Quartan Ague.

John Ridelet, a Proctor in the Senate at *Grenoble*, 54 years of Age, was troubled 3. Moneths with a Quartan Ague, which was a double Quartan, and a terrible one; so that he kept his Bed, and fed only upon Broths. He was extream Lean; also his Face, Feet and Legs were troubled with flegmatick swellings, so that he seemed hastening into a Dropsie. After many Remedies tried in vain, he implored my help on the 23. of *December* 1645. it being in the extremity of Cold and Frost. But I finding him in an extream bad condition, refused to give him of my Medicament, because I would not have it disgraced. Howbeit, overcome at last with the entreaties of his Wife and Brother, I gave him 20 grains on the 24. of the same Moneth. He had 7. stools without trouble; at first he voided cholerick Excrements, and afterwards much flegm. On the 25. he voided again the same kind of matter. His Fits continued. On the 27. day he took 24. grains of my Medicine, and had six stools without any trouble. The day following he had a light Fit. And after that his Quartan Fits never returned, at least during the seven days I stayed at *Grenoble*; nor could I yet ever hear what became of him after my return: For the Dropsie hanging over his Head did portend great danger of Death.

Claudius Mousseau, a Baker of *Grenoble* at the sign of the Sword-Royal, being 40 years old, had a double Quartan four Moneths; he took 20 grains of my Medicine the 25. of *December*, 1645. When the Weather was cold and frosty. He had four very gentle stools. On the 24. and 25. days he had his Fits again. On the 26. day he took 32 grains of my Medicine. He had only two large stools; and never had Fit after.

Michael Gounselin, a Smith of *Grenoble*, having had a Quartan Ague four Moneths, took 32 grains of my Medicine on the 26. of *Decemb.* 1645. the Weather extream cold: He had seven Stools and two Vomits. The day following his Fit returned more intense than the former. On the 29. day of the same Moneth he took the same Remedy, was six times purged by Stool without any Vomit, and he never had Fit after.

Martin Lebreton, of *Paris*, Organist of the Church of *St. Lewes*, which belongs to the Jesuits, 20 years old, troubled with a Quartan Ague four Moneths together, having took nothing that time, the third of *Feb.* 1646. he took 20 grains of my *Feaver-Frighter*; which purged him plentifully only downwards; the day following he had a very light Fit, but none after that.

The Maid-servant of the Wife of the most noble Msr. *Mareschal de le Hospital*, named *Barbe Lepase*, being 8. Moneths troubled with a double Quartan, took 20 grains of my *Ague-Frighter* the 25. of *Feb.* 1646. being her well-day, she was purged by stool. The day following she was purged after the same manner and measure. Her Fit which was expected at five a clock in the Evening, came at nine in the morning like the former, and after that she never had Fit more, but was quite freed from that stubborn double Quartan.

The Foot-Boy of Mfr. the Count of *Larochequion*, eighteen years-old, had a Quartane Ague four Moneths, he desired my help the 27. of *Feb.* 1646. And because he had a long time took no Physick, and kept a Lenten Diet, I thought good to prepare his body by a moderate blood-letting and gentle purgation of an Infusion of three drams of *Senna* with half a dram of Salt of *Tartar*, wherewith he was gently purged. On the second day of *March* he took twenty grains of my *Feaver-Frighter*, it being his Fit-day, and the Fit not to come till six in the Evening. He had eight Stools, but no Vomit. His Fit came at two in the afternoon more violent than formerly. On the fifth day of the same month the Fit came again at two a clock and was like the former. On the seventh day he took the same dose of my *Feaver-Frighter*, which wrought as before. Yet the Fit came as formerly, and he had three more Fits one after another, using no Remedy. Yet he

he began to get flesh, the colour of his Face was more fresh, and he had a better Stomach to his Meat. After those three Fits, the day before the fourth, he took twenty one grains of my Fever-Frighter, which gave him six Stools. The Fit came the day after somewhat weaker; and after that he never had Fit more.

*An Appendix, by Addetional Discourse touching
my Ague-Frighter.*

Hitherto a Quartan-Ague has been counted incurable in the Beginning, Augment, and State: because the morbidick matter is not at those times sufficiently digested nor prepared, so as to be brought away by Purgations; and all that endeavour to bring it away by strong Purgatives, of a simple Quartan they many times make a double or a triple, and sometimes a continual, whereby the Patients are brought in extream danger of death. Hence it is, that the more discreet sort of Physicians use to advise such as have Quartan Agues to a long Patience, and put them off till the Spring season, whose temper is most accomodate to concoct and purge out the Humor offending: but the Winters cold is so contrary thereunto, that during the same a Quartan is judged to be wholly incurable. Because the tartarous and Melancholly Humors are more condensed, and as it were congealed; also the passages of the body as well sensible as insensible are shut up, so that all hope of Evacuation or Transpiration, seems taken away; Yea verily and the stubbornness of the morbidick matter is sometimes so great, that many Quartan-Agues have been by most learned Physitians set upon in a due Method in the Spring and Summer time, with all variety of vulgar Medicaments, and yet they have frustrated all their endeavours, and continued an whole year, yea sometimes two or three years together.

The Premises notwithstanding, long use and continual exercise is wont to encrease Arts very much, and the new Inventions of latter Physitians have advanced the Art of Physick received from the Ancients, unto a more sublime degree of Dignity. In whose Footsteps I treading, having for the space of Thirty seven years, in which I have practised Physick, been diligently painful in searching into the most hidden Secrets of Nature; although continually taken up (besides visiting the sick) with Lectures, Disputations and other Academical Exercises; I did oftentimes for a long while, seriously consider with my self, if by any means possible this stubborn and long lasting sickness, might in a short time be overcome and mattered. And though this seemed a very hard Task, and almost impossible to be accomplished, yet (by Gods blessing to whom be Honor and Glory) I obtained my desire. For at length by long Meditation, and elaboration, by adding, detracting, diminishing, and many ways preparing sundry Materials, I found out the true and specifick Remedy of a Quartan Ague, which plucks it up by the Roots. I will not say, it is an infallible Medicine, least I should speak like a Mountebank. But I can with a good Conscience say, that I never gave this Medicament, but it took away the Fits at least at the third times taking. Howbeit in some persons, either through errors of Diet, or by reason of some Reliques of the morbidick matter remaining within the body, there has happened a Relapse, which has been for the most part removed, by some light vulgar Purgation.

'Tis fourteen Moneths since I have begun to use this Medicament, which I meditated in my mind many years together. And I have committed to writing the names of the most that have hitherto taken it, with the Stories of their Diseases. In whom Quartan Agues have been Cured, in the beginning, Augment and State; yea and in the middle of Winter, when all was frozen.

The Vertues of this Medicament are such, that it oppugnes the Melancholy Humor by its Specifick quality, and hinders the Fomentation thereof which causes the Fit, extinguishes the bad qualities thereof, and changes the whole Nature thereof. And so all those Tumults which that fierce Humor is wont to raise in the body of Man, are presently appeased, that Humor being made weak and impotent like Water. For even as Vinegar, the Salt of Tartar, or of Saturn,

Saturn, being mixed with it, does suddenly lose all its sharpness and strength, and becomes like water : So the Melancholick Humor, when it meets with its Specifick Remedy, is after a manner extinguished, and loses all power of acting and resisting. So that, for the most part, by once giving thereof, a Quartan Ague is chased away, and seldom needs it be given twice, and very seldom the third time. Whereas otherwise, the matter being rebellious, not tamed before-hand, it cannot be stirred in the least, by an hundred Medicaments. Whereupon the Physitians, being many times vexed with the stubbornness thereof are forced to give over the Cure. And although this Remedy be peculiarly ordained to Cure the Quartan Ague, yet it does in one day drive away Tertian Agues, by reason of the Analogy they have with Quartans (for long Tertian Agues do commonly turn to Quartans) as appears by the Cures of many Tertian Agues before set down ; and therefore I have given it the general name of Ague-Queller, or Ague-Frighter.

I think not fit as yet to set down the exact and plain description of this Remedy, till its Vertues shall by some more years Observations be made manifest. In the mean time, to satisfy the Curious Searchers into Nature so far as to give them occasion of Enquiry, I shall here propound a faithful and sincere description thereof, howbeit somewhat obscure, and covered as it were with a thin Vail or Curtain, which the Sons of Art being industrious, may without very great pains draw aside. This precious Medicine therefore is compounded of a threefold Hercules, by twelve Labours brought to the highest degree of Nobility and Excellency : Unto which a fourth Champion is added, to accomplish the work. It may be given to Children the quantity of ten, twelve and fifteen grains. To grown persons from twenty grains to thirty and forty. It works gently being given in due dose ; nor does it disturb the body more than vulgar Medicines made of Senna and Rhubarb. Yet it works sometimes by vomit, if the Morbifick matter some part of it quarter about the stomach. For that is its peculiar Quality, that it goes directly to the morbidick matter wheresoever it lies lurking, valiantly assails, stoutly cudgels, and at last vanquishes the same. The Histories lately described do plainly witness the same. For in some persons finding the passages open, and the matter not very plentiful, it performs its work without any trouble, and with a little purging ; as in the Prince *Doria*, and some others before recited. But in others who had used no Physick all the time of their Diseases, and had gorged themselves with bad Diet, finding a multitude of bad Humors, the passages close shut up, and extream Crudity, it could not overcome the Disease without some disturbance and Labour of the Patient ; as it happened in certain poor common people, upon whom this Medicament was first experimented. And so much shall suffice to have said touching my Ague-Frighter, or Ague-Queller.



THE





THE
FOURTH BOOK
OF THE
Medicinal Observations,
And Remarkable Cures of
Several
Famous Physitians.

The Preface to the Reader.

ALL Physitians who are diligent and accurate in the managing of their Practice, do often meet with many things most worthy of Observation; which notwithstanding being for the most part neglected, do unhappily perish, and become a Sacrifice to Oblivion. And as for such things as some do register in their private Note-Book, they are reserved indeed for their own private use, but are not in the least profitable to the Publick. I do therefore make it my request to all Industrious Professors of this Art, That if they are desirous of the publick Good, and have already collected so many remarkable Observations as may make a considerable Volume, that they would be pleased to print them: But if they shall be too few to fill a Book, that they would vouchsafe liberally to communicate the same unto me, who will print them under their Names; as they may see I have done in the following Observations communicated by others: Which I gathered here and there from my Friends, and have

have published every mans Observations under his proper Name. Amongst which, many things may be found more excellent than anything in my Observations, by which it is apparent, That any man may advance the Dignity of the Art of Curing by this kind of Writing, and gain himself some Reputation thereby.

Furthermore, I desire the gentle Reader to take notice, That I have caused these Observations to be printed in the same order that I received them; that no man may complain I have not marshalled them according as the prehemineny of one above another might seem to require.

*Observations communicated by M^{sr}. Petrus Pachequus,
a Famous Physitian at Lunel, my most
ancient Friend.*

The 301 Observation or History of Famous and Rare Cures, &c.

Want of Appetite.

A Souldier much vexed with a Cronick Ague, beginning now to be much eased in respect of the Fits, which were not so cruel as formerly, did humbly beseech me that I would recover his Appetite, which was wholly lost, otherwise he must of necessity die in the space of three or four days. I prescribed him a potion of half an ounce of *Diaphanicon*, with a Decoction of common Wormwood and Agrimony; afterward I sharpened his Appetite with these following Remedies, as with a Whet-stone.

Take Leaves of Agrimony, Common Wormwood, Centaury the less, of each half a handful; make of all a Decoction. Make half a pint of the straining with a little Sugar. I ordered the Patient to drink of this Decoction nine days together: But after five days were past, he came unto me, earnestly intreating, that I would abate his Dog-like ravenous hunger, caused by my Medicine: which I did, by causing him to abstain from the foresaid Drink, and advising him to eat Butter and fat meats, and to drink strong Wine. I can testifie that many by this Medicine have fallen into the like ravenous Hunger.

The 302 Observation or History of Famous and Rare Cures, &c

Cholick Pain.

Monsieur the President of *Rupemore*, an Ancient Man, being tormented three whole days with a grievous Cholick; when no Anodines would ease his pain, having taken one dram of the Powder of a Wolf's Guts, he was cured as it were by a Charm. Also a Priest very subject to this Disease. And a Widow dwelling at *Montpelier*, which had been cruelly tormented 27 days together.

together. And finally, a thousand more whom for brevities sake I pass over, without taking any Clyster or purging Medicine, which makes the Admiration greater.

The 303 Observation or History of Famous and Rare Cures, &c.

A Cholick from the Kidneys affected.

A Certain Widow being vexed with a Cholick pain, and that proceeding from the Reins, implored my help (when I was at the *Bellilucan Baths*) to ease her pain. Which I did in a moment. For I bade her immediately to go into the Bath, and presently her pain was taken away: And I admired that so suddenly it was ceased without any Clyster or purging Medicament.

The 304 Observation or History of Famous and Rare Cures, &c.

A Cholerick Loosness coming upon Agues.

Such as are troubled with Cholerick and Malignant Agues, especially with a double Tertian, by reason of an abundance of a raging Cholerick Humor, do fall into the Disease named *Cholera*; upon the return of their Fits, the Violence whereof if you do not assuage, with such Medicaments as I shall by and by set down, the Patients will die within the space of two or three Fits. *Msr. Labrundus*, a very Learned Man, having one of these Agues, could hardly be recovered out of his Fit, which was attended with the Disease *Cholera*, being as cold as a stone, his pulse exceeding small and almost deficient, with hollow Eyes and other horrible Symptoms. At length after a multitude of Medicines, which many so affected would not use, but bid the World adieu, he was recovered out of the Jawes of death. I, to prevent the tempestuous storm of the next Fit which should come the morrow after, ordered that the Patient should be refreshed with thick Panadaes and Jellies, that a Bridle might thereby be cast upon the Humors, which would rage the day following. I appointed Epithemes and Opiates of Conserve of Roses, Bugloss, Borrage, preserved Myrobalans and Pearls; and three hours before the Fit, I caused this wonder-working Clyster to be given him, without which, if I mistake not, my Friend had gone to the Pot.

Take Red Rose Leaves one handful, boyl them in the Broth of a Wethers head and feet. In a pint of the strained Liquor dissolve two drams of new Venice Treacle, and one yelk of an Egg. Make of all a Clyster. This Clyster be kept untill the return of his Fit, which brought the Cholerick Flux with it, but much less than formerly. By this Method I cured many desperately sick of this Disease.

The 305 Observation or History of Famous and Rare Cures, &c.

Pain of the Hemorrhoids.

Many in this hot Season of the Year are troubled with inward and blind Hemorrhoids, which cause extream pain. Likewise by reason of the Excrements being hardened and kept in by reason of their swelling, which closes up the Gut, most cruel pain is caused. The ordinary sort of Physitians give *Cassia* to loosen the belly in this Case; but they do ill (questionless) in so doing. For seeing the Veins are most of all puffed up in the Fundament, by reason of their natural softness, and are always ready to receive blood; it comes to pass, that by the use of *Cassia* they are so far mollified, that afterward they more easily entertain superfluous blood, and consequently augment the Disease. But I learned of a Beggar-Woman, to infuse Yarrow in boyling water, and to give the said infusion to drink for a Moneth together, and all of this Disease were so cured. The Lady *Du-Masia*, and the Wife of *Crancerius* a Chirurgion

geon, troubled with the Hemorrhoids, were cured with this Medicine. At last I found this very Medicine in *Arnoldus de Villa Nova*, in his Chapter of the Pain of the Hemorrhoids. The self-same Remedy is good against the extraordinary afflux of the Hemorrhoids, if we will believe the foresaid *Arnoldus*, and there is reason also for it.

The 306 Observation or History of Famous and Rare Cures, &c.

The Stinging of a Wasp.

A Wasp having stung my hand, it pained me so cruelly, that I was not able to endure it. I laid on Venice Treacle and the pain was gone in a moment. But when three hours after I threw away the Treacle, a most cruel pain returned as bad as at first, which was allayed by applying the same Medicine again, and keeping it on all day.

The 307 Observation or History of Famous and Rare Cures, &c.

Pushes.

When I could not by any Medicines heal certain Epinyctides or Pushes, which arise in the Night springing from black Choler, by a Womans advice they were anointed with Oyl of Juniper Berries, and the Patient thereupon slept quietly, whereas he had lain sleepless before, and was perfectly Cured.

The 308 Observation or History of Famous and Rare Cures, &c.

Convulsion.

A Young man had a Convulsion, so that he could not bend his Back-Bone. By help of this following Medicament he could presently walk nimbly.

Take of frank Butter and old Lard, of each three ounces; Bdellium Ammoniacum, of each half an ounce; Myrrh, Castoreum, of each three drams. Flowers of Stæchados and Rosemary, of each one pugil. Nutmeg and Cloves, of each one dram; a young Kitling or little Cat unbowelled, and stripped and cut in pieces. Stop the belly of a Goose with these things, and sew it up and roast it on a spit: and the first Liquor that drops, cast away; the next save in a dripping-pan half full of Vinegar, to anoint the Cramped or Convulsed Back. This is a divine Medicine.

The 309 Observation or History of Famous and Rare Cures, &c.

Red Pimples in the Face striking in again.

A Certain Carmelite Frier, a civil and well mannered person, but disfigured with great high red Pimples, thick spread all over his Face, came to visit me, whom at the first sight I knew not: because the foresaid Pustules were of themselves without any help of Art gone away, and his Face become smooth. I told him he would suddenly fall into a most grievous Disease, nor was I mistaken in my conjecture, for within fifteen days he fell into a continual Fever, of which he died.

The 310 Observation or History of Famous and Rare Cures, &c.

The Mother-Fits.

A Certain Damofel being marriageable, was vexed with wandring Convulsive motions, by which and by certain pains in her Womb, I conjectured that she was troubled with suffocations caused by vapors arising from the Womb. With this following Medicament I Cured her in a moment.

Take *Assa-Fetida* two drams, *Castoreum*, *Facula Bryonia*, of each a dram; *Rue-Seeds* one scruple; *Saffron*, half a scruple; *Laudanum* of *Paracelsus*, eight grains: (which *Laudanum* I therefore added, both by the advice of *Hypocrates*, who prescribes the juyce of sleeping Poppy in Fits of the Mother, in his *Second Book of Womens Diseases*, page 237. about the end, in the Edition of *Foësius*: As also that I might temper and moderate the other Medicaments with the *Laudanum*) With Syrup of *Mugwort* make a Mass of Pills, of which let her take one dram.

The 311 Observation or History of Famous and Rares Cures, &c.

Pains after Child-birth.

A Drunken Gossip after she was brought to Bed, was vexed with most cruel pains, which after other Remedies were cured with this following:

Take *Galbanum*, *Assa-fetida*, of each one ounce; Spread therewith a round Plaister, and put four grains of *Musk* in the middle, and lay it on a little below the Navil. Her Womb which was contracted like a Globe in her Groin, returned to its proper place, and the pains ceased.

The 312 Observation or History of Famous and Rare Cures, &c.

A Medicine for pains caused by a Vesicatory.

MSr. *Amalricus* being troubled with a sleep Disease, when he was rowfed and came to himself, he complained exceedingly of the pain which was caused by a Vesicatory which had been applied; And when I could not give him ease by any Anodine Medicament; Madam *Ranchina*, my Wives Sister, asswaged the same only with Water and Oyl mingled together. I curing one Woman that was grievously tormented with the burning of a Vesicatory with this Medicine, and all others vexed with the Calamity.

Take of the second green Bark of an Elder Tree bough scraped off with a Pen-knife, one handful. Boyl it in sweet Oyl with a little Water, untill the Water be consumed; to the straining add a little Wax: And make all into an Oylment, which asswages all pains caused by Vesicatories. This is a Divine Remedy.

The 313 Observation or History of Famous and Rare Cures, &c.

Swelling of the Thigh.

THE Wife of Msr. *Justamondus* had a Swelling in her Thigh, which threatned a Gangrene, her native heat in that part being by this time suffocated and over-whelmed. After she was let blood, I gave her an ounce of Syrup de *Spina Cervina*, in a Decoction of red Vetches, and the day following her Thigh asswaged pretty well. And this I observed in many other Women, whom I observed to be more liable to swellings of the Legs than Men, because the

the Womb is the Common Shore of the Body, into which Superfluous Humors are collected, and the Womb disburthens it self into the Neighbouring Hipps.

The 314 Observation or History of Famous and Rare Cures, &c.

Chops in Womens Duggs.

MY Wife was much vexed with Chops and Clefts in her Dugs, which I could by no means heal: a tattered old Woman quickly cured her, with Oyl of Nuts newly drawn, which she anointed unon the Clefts, and strewed Sugar finely powdered thereupon. The Balsom of Sugar works the same effect: as I have tryed an hundred times.

The 315 Observation or History of Famous and Rare Cures, &c.

The Dropsie.

A Priest named *Sabardetus*, having vomited eighteen ounces of blood, fell into the Dropsie *Ascites*, that is the bottle-Belly Dropsie: of which I had Cured him with an infusion of Rhubarb in fair Water, which he drank for his ordinary drink: but when he fell to please his Palate, and had forgot his former Calamity, the Dropsie returned and killed him.

The 316 Observation or History of Famous and Rare Cures, &c.

Bleeding.

A Countrey Man being almost dead with bleeding at his Nose, sent for me: but when nothing would help, I dropped a little Vinegar of Roses into that Ear which was next the Nostril, out of which the blood came, and his bleeding presently ceased. I learned this of *Msr. Pontandus*, who saw this Remedy used by a *Dutch* Physitian. I have read it in *Scribonius Targus*, in the Chapter of Bleeding.

The 317 Observation or History of Famous and Rare Cures, &c.

Hiccupping.

Captain *Dumasius* having a Tertian Ague, and taking Syrup of Poppies in the middle of his Fit, was vexed with such a troublesome Hiccupping, as almost kill'd him. And when neither Aloes oft taken, nor other Remedies could cure this Disease, at length by our Patients own advice I sent him to the Baths of *Baleruca* to take Water, which having plentifully drank of, as the manner in those Baths is, he was quickly Cured, those Humors being dissolved and washed away, which the Syrup of Poppy had rivetted as it were into the Coats of the Stomach.

The 318 Observation or History of Famous and Rare Cures, &c.

A Flux of Blood out of the Ears.

I Saw *Bronsolus Gimianensis* who fell from Horseback upon the stones on his right Ear, out of which flowed three pounds of Blood. Also I have seen very many others who by a fall have

havebled plentifully at their Ears, and escaped with their lives. But as many as I have seen void quittor or bloody matter out of their Ears after a fall, they all died upon it.

The 319 Observation or History of Famous and Rare Cures, &c.

Listlessness to Carnal Conjunction.

A Woman very desirous of Children, but having no appetite to Carnal Embrace-ments, entreated me that I would kindle in her the desires of the flesh, which were (as she said) Mortified in her. I did what she requested with this following Opiate,

Take Conserve of Eringos Root, and of the Male Satyrion, of each one ounce. Orange Rinds preserved in Honey six drams. One preserved Wall-Nut. Confectio Alkermes, half an ounce. Amber-Greece, flying Pismires, of each one scruple. Mosch, six grains. With Syrup of preserved Citrons, make all into an Eleciuary. Of which let her take before a light Supper the quantity of a small Chest-Nut, drinking a little Hippocras after it. The Woman confessed that she felt wonderful pleasure after the use of this Eleciuary. There is nothing in the World more effectual in these cases, than to anoint the Region of the Womb with Oyl of flying Pismires, which is made after this manner:

Take of flying Pismires two ounces; Infuse them in Oyl forty days together in the hot Sun of the Dog-days.

The 320 Observation or History of Famous and Rare Cures, &c.

Proud Flesh.

I Had an Ulcer which secretly lurked under the Nail of my great Toe; that I might come to Cure this Ulcer, I bad the Chirurgeon to cut the Nail just over the Ulcer, and make an hole, that so Medicines might be applied; but proud flesh grew up, which after I had often taken away, it still grew again. Wherefore after I had long used burnt Allum, I determined to try a new Medicine. Wherefore I applied red precipitate well washed, and no waies painful, to eat out the proud flesh, which it quickly did, and it grew up no more.

The 321 Observation or History of Famous and Rare Cures, &c.

Pain of the Pleurisie.

A Damsel of a Constitution mingled with black Choler, was tormented with a most grievous pain in her Side, which had brought her to the Gates of death, from whence I reduced her by this following Medicament;

Take Oyl of sweet Almonds two ounces; Laudanum Paracelsi, three grains: A little after she had taken this, her pain ceased, and she was better.

The 322 Observation or History of Famous and Rare Cures, &c.

A Prognostick touching Wounds.

IN the Seige of Montpelier, many wounded Souldiers, especially such as were wounded in their hands, were within a few days taken with Convulsions of their temporal Muscles, and I observed that all of them died. A Certain Captain in that bloody Battail at Calvissou, between the Marshall du Trec, and the Duke of Rohan, was wounded in his Thigh, and the Wound reached as deep as the Periostium, a Convulsion followed in the parts near his Thighs, and arose by little and little to his Temple Muscles, and kill'd him. They that are taken with this Convulsion

sion, cannot open their mouths. At the beginning of the Convulsion they speak readily, and know not that they are so near to their long home.

The 323 Observation or History of Famous and Rare Cures, &c.

Over-violent working of a Purge.

THe Baron of *Calviffon*, after he had taken the Powder of *Diacarthamus* against my mind, he had an hundred stools. I Cured him after this manner.

First, we made a Clyster of a Decoction of Red Roses and Chamomel flowers, with a little Sugar of Roses, and the yelk of an Egg. Afterwards we gave him this following Clyster: *Take Capon Broth one pint; Sugar of Roses one ounce; Laudanum of Paracelsus five grains; the yelk of one Egg. This presently stopt the violence of the Purge. Instead of the Laudanum, a dram and half of Venice Treacle may be added.*

The 324 Observation or History of Famous and Rare Cures, &c.

Extream Thirst.

MSr. *Viventius* being sick of a Feaver, was tormented with so extream Thirst, that he imagined himself to be one of the Water-Bearers of *Paris*, that carry Water about the City, and cryed night and day, *Water, Water, who wants Water?* But his Thirst, which no other means could stop, was asswaged with one dram and an half of *Sal Prunelle*, which he drank dissolved in fair water. Also my *Simeon*, having taken some Sirup de *Spina Cervina*, was almost killed with Thirst: And took a dram of *Sal Prunelle*, and his Thirst presently ceased.

The 325 Observation or History of Famous and Rare Cures, &c.

Small Pox

ISaw the Son of *Msr. Martinetus*, sick of the small Pox with laudable signs; for after the coming out of the Pox the Feaver abated, he fetcht his Breath freely, and he had no Loosness, the Pox were high enough, his sleep was moderate, he took what was given him without offence: Howbeit, all on a sudden without any manifest Cause, the Pox struck in again, and he died thereupon. I have seen the like befall many which had the Disease, and I foretold that they could not escape death.

The 326 Observation or History of Famous and Rare Cures, &c.

A Deadly Prognostick.

THe Son of *Msr. Engarramus*, being sick of a Feaver could not swallow, but voided what he drunk through his Nostrils, the muscles of his *Oesophagus*, being (as I conceive) taken with the Pallie. He died. Furthermore, whereas he was not favoured like his Mother during his health, yet before his death he was countenanced so like his Mother, that all wondered at it. Also a Boy of mine, not at all like his Mother, a little before his death resembled his Mother, as if he had been her Picture. And all sick persons that have voided their drink out of their Nostrils, or who were like their Grandfathers, their great Grandfathers, or Grandames, or their Parents, in the time of their sickness, they all died; which is a wonderful thing.

The 327 Observation or History of Famous and Rare Cures, &c.

Nights-sweats.

THe Wife of Msr. *de Laderese*, every night after she recovered of a Feaver, was wont to sweat. I prescribed her a cooling Julep of the waters of Cichory and Bugloss, and the Syrup of Apples, and she did sweat no more. Whence I gather, That for people to sweat in their sleep is not always a sign of Abundance of Humors, but sometime of heat; for healthy persons of an hot Complexion are wont to sweat in the Night. Add hereto, that the foresaid Gentlewoman was cured of her sweating without any Evacuation either Natural or Artificial.

The 328 Observation or History of Famous and Rare Cures, &c.

Bleeding caused by Tooth-drawing.

MAdam *Viventia* having drawn one of her Teeth, so plentiful a flux of Blood followed, that she was at Deaths-door, all Remedies being applied in vain. I being sent for, caused a great Rupture-Plaister to be laid upon her Temple on the same side out of which her Tooth had been drawn. Also I caused a little burnt Vitriol powdered with a little Cotton-wooll to be put into the hole out of which her Tooth was drawn, which she kept in with her finger. These things being done, within one hour the blood was stopt.

The 329 Observation or History of Famous and Rare Cures, &c.

The Pleurisie.

ALL that have the Pleurisie and vomit at the beginning of the Disease do recover, as I have observed in an infinite Company of Patients: the side being eased of the Humors cast up by vomit.

The 330 Observation or History of Famous and Rare Cures, &c.

Menstrual Blood.

THe Menstrual Blood of Women, especially such as are in good health, does smell like a Mary-gold flower. Which makes me conjecture, that Mary-gold flowers do provoke the Courses through similitude of substance.

The 331 Observation or History of Famous and Rare Cures, &c.

The Running Gout.

MAdam *de Cottereau* being troubled with an Universal Gout, so that no part of her Body was free, was cured with *Crocus Metallorum*; notwithstanding what *Hypocrates* relates touching forty days.

The 332 Observation or History of Famous and Rare Cures, &c.

Pains of the Womb.

I Have seen many Women tormented with pains in the Womb, who found little ease by our *Laudanum*. But having taken a dram of *Antidotum Asyncritum* [described in the *Pharmacopæia* of *Renodæus*] they were presently freed from their pain. Which I have much admired, neither do thou count it a slight matter.

The 333 Observation or History of Famous and Rare Cures, &c.

Danger of an over-hot Bath.

A Very honest Woman coming out of a Bath hotter than ordinary, fell into so great an inflammation of her whole Body, that she could not rest a minute by reason of Pains and Anxieties. And after all cooling Medicines both inward and outward had been used in vain, a Bath of nothing but luke-warm Water, freed her from all her pains: whereby my mind was freed of a great deal of Care.

The 334 Observation or History of Famous and Rare Cures, &c.

Pain of the Stomach.

Cholerick, Lean, Red-haired persons, of a thin habit of Body are in the beginning of the Summer troubled with pains in the Stomach; because the Mouth of their Stomach being extream sensible is corroded with Cholerick Humors, which were formerly bridled by the temper of the Winter and Spring. The Cure is to purge them with Rhubarb, and then to give them twice or thrice in the morning three or four grains of the *Laudanum* of *Paracelsus*. Doubtless it is better with them when the mouth of their Stomach is not so sensible.

The 335 Observation or History of Famous and Rare Cures, &c.

Scabby Legs.

TO Cure that great Scabbiness which after long sicknesses, especially the Quartan Ague, breaks out upon the Legs, having cruel pains attending the same, I have not found any thing among all the Medicines which we use, more effectual than this following Oyntment.

Take *Unguentum Basilicum*, four ounces. Turpentine two ounces: Oyl of Roses three ounces and an half; three Yolks of Eggs; a little Wax. Make of all an Oyntment, and anoint the Scabby places therewith.

The 336 Observation or History of Famous and Rare Cures, &c.

Inflammation of the Mouth caused by Mercurial Oyntments.

TO such as are fluxed by being anointed with Oyntments made of Quick-silver, an Inflammation and exulceration of their mouth is wont to happen, sometimes exceeding hard to Cure, I having caused one to be anointed, his Mouth was so inflamed, that he was almost desperate, which

which inflammation, all other Medicines being tried in vain, was healed only with Chicken Broth made without so much as any Herbs in it. I suppose the virulency of the Quick-silver was mitigated by the benign and debonair substance of the Chicken.

The 337 Observation or History of Famous and Rare Cures, &c.

Pain of the Head.

After a pain in the one half of my head of Fourteen years continuance, it happened that a Vein opened in my upper Lip, out of which every Moneth four or five pound of Blood very hot and salt issued. I freed my self from this troublesome accident, by opening a Vein twice every Moneth in that Arm which was just opposite to my bleeding Lip; and Blood being liberally taken away, my Head-ach ceased.

The 338 Observation or History of Famous and Rare Cures, &c.

Bruises on the Head.

A Maid Twenty years of Age, received a blow with a stone a little above her forehead, and went for all that about her business. Howbeit three days after she complained of a dull pain in her head, she became sleepy, and was a little Feaverish. Upon the seventeenth day certain Convulsive motions appear; upon the Twentieth an Imposthume breaking, and greenish quittor coming out of her Nostrils, she died. ¶ M. Viventius fell backwards, he remained some days intent upon his business; afterward he began to Rave, to desire fire, saying that he was cold; to be sleepy. He had a bad Night, ever and anon putting his hand unto his head. Upon the eleventh day his Imposthume broke, and he voided purulent quittor out of his mouth, and died presently. ¶ A Nephew of mine having received a bruise on his Head, became sad, and complained a little of Head-ach. A moneth after he fell into a Feaver with Drowziness and Head-ach, he rose ever and anon and cried out. On the seventh day of his Feaver he voided corrupt matter from his Nose, and presently died.

The 339 Observation or History of Famous and Rare Cures, &c.

A Tetter with itch of the whole Body.

A Certain Fifth-wife was vexed with a cruel Tetter all over her Body, with so great an Itch that she continually clawed her self, and could not rest a moment. In the morning, by reason of her continual scratching, there was found in her bed, three or four handfuls of Scales like unto the Scales of Fishes. I having ordered her Diet to be Chicken, Kids-flesh and Barley Broths, first of all prescribed her a Bolus of Cassia, afterwards I caused the Basilica Vein of both her Arms to be opened, also a Vein in her Forehead and in each Ankle, that I might draw out the corrupted blood from all parts of her Body. Which being done, I ordered her to use this following Magistral Syrup thirty days together,

Take of Senna, Polypody green, of each four ounces; Epithymum an ounce and an half. Choice Rhubarb one ounce. Annis Seeds, three drams. Yellow Sanders, one dram and an half; Infuse them all Night in Juice of Apples cleared by settling. Afterward boyl them according to Art, adding as much Sugar as will suffice to make all into a perfect Syrup. The first and second time she took two ounces, or two and an half, of this Syrup in whey; afterward she took two spoonfuls every morning; and so her body was kept open, and the morbid matter was leisurely evacuated. Sometimes she took Lozenges of Diarrhodon Abbatis in the morning after her Syrup. She used Chicken Broth many days together, wherewith the force of the Melancholick Humors was much abated. At last I sent her to the Water of Meyne, with the cooling quality whereof, her inflamed

med Liver being brought into temper, she perfectly recovered : and required no more of my advice for 15 years after. Her Husband had died of the Leprosie.

The 340 Observation or History of Famous and Rare Cures, &c.

Pissing of Worms.

A Young man that was tormented with pain in his Kidneys, voided with his Urine very many Worms, black, as long and thick as an ordinary Needle, horned, of a crumbly substance ; two of which Worms, if you remember, I sent to you.

The 341 Observation or History of Famous and Rare Cures, &c.

Foolishness.

MSr. N.N after a long using of Red Poppy Water became foolish, and at length died. His Skull being opened, I found the Cavities of his Brain full of a Black Humor like Ink, extream stinking.

The 342 Observation or History of Famous and Rare Cures, &c.

Fierce Distillations with Sweat.

I Have seen many troubled with cruel Distillations, who did sweat so exceedingly, that it brought them into an extream weakness, which I thus suppressed.

Take Frankincense, Mastich, red Sanders, Kermes Berries, Red Rose Leaves, of each one ounce : Make them into a Powder, wherewith let the Patients Head-Cloths be smoaked.

The 343 Observation or History of Famous and Rare Cures, &c.

Spots in the Eyes.

Water of Honey does most certainly take away spots out of the Eyes. But if the Eye be pained withal, the pain must first be asswaged before this Water be used, for it will cause pain. Be sure to remember that.

The 344 Observation or History of Famous and Rare Cures, &c.

Stones preternaturally great.

MSr. N. N. had naturally very great Stones, so that they were far bigger than those of a Stone-Horse. He never had a Child. I suppose because he wanted tools for that work. After a fall from an Horse his Cod swelled like a great Ball ; the swelling came to suppuration, and great quantity of Quittor came away. The Ulcer being perfectly cleansed, there fell away pieces of his stones, which were great Stones indeed, hard as Flints, and flew in pieces being struck with an Hammer, as other Stones are wont to do. The Functions of his Body and Mind were little altered. At last, when a few days were over, a gentle Feaver laid hold upon him, with Anxiety and Thirst, which a little after grew greater : the Pulse on that side on which his Stone was diseased, was much lessened, before any change could be felt on the other Arm. There followed a deep redness in his Face ; also red Pimples in his Body, which quickly brought death. This Story is indeed very well worth observation. The

The 345 Observation or History of Famous and Rare Cures, &c.

Twins of the Womb.

I Have foretold that my Wife and many other Women would bring forth Twins, their Mothers having had Twins. Their Great Bellies were troublesome more than ordinary. Their Wombs swelled mightily. And their Legs and Feet were in a short time puffed up. The Child moved very little in the last Moneths, because it was so straitned of Room, by reason its fellow took up half the place. I seldom failed in my Prediction.

The 346 Observation or History of Famous and Rares Cures, &c.

Blood drawn out actually cold.

I Saw a Woman extream angry by Nature, who being sick of a Feaver, was let blood in my presence. And when the blood upon the opening of the Vein spirted upon me, I felt it actually cold, like Ice or Snow. She died within five days after her blood-letting.

The 347 Observation or History of Famous and Rare Cures, &c.

The Salvatella opened in a Quartane Ague.

TO open the *Salvatella* Vein [which is between the Ring-Finger and the little Finger] is very good in a Quartan Ague. Madam *Trossella* having a Quartan Ague, her *Salvatella* being opened an hour before the Fit, she confessed her Fit was much abated; the next time it was opened, her Fit was as good as nothing: after the third opening, her Fits quite left her.

The 348 Observation or History of Famous and Rare Cures, &c.

Tetter or Ring-Worms.

M Adam de Castelan was troubled with a foul and fierce Tetter or Ring-Worm on both her Hands, which vexed her extreamly. She refused the use of Bleeding, Purging and all other Remedies. In a few days I cured her after this manner.

Take Oyntment of Roses, three ounces. White Precipitate, three drams. Mix them, and therewith smear the parts affected.

The forefaid Gentlewoman told me, That with this Oyntment she cured a Matron of great Quality in Provence troubled with the same Disease.

The 349 Observation or History of Famous and Rare Cures, &c.

An hard swelling of the Spleen.

A N old Woman troubled with a Schirrous or hard swelling in her spleen beseeched me to give her some ease, for she knew she could not escape Death. I gave her a Pill made of four grains of *Laudanum*, by which all the troublesome Symptoms were mitigated, especially shortness of Breath, which had much oppressed her; which made me wonder.

The 350 Observation or History of Famous and Rare Cures, &c.

Convulsion-Fits in Children.

ALL Children in a manner that are costive and bound in their Bellies, are subject to the Convulsion-Fits, as I learn out of *Hypocrates*, and by experience. My Son *Charles* his Boy who was perpetually Costive, died of the Convulsion-Fits.

The 351 Observation or History of Famous and Rare Cures, &c.

Swooning upon Blood-letting.

MAny endure well enough the opening of a Vein and the effusion of their Blood ; but when their Arm is united and the Orifice stopped, they faint away. You may prevent this accident by giving the Patient a mess of good strengthening Broth, a little before the opening of the Vein ; which I have many times experimented.

The 352 Observation or History of Famous and Rare Cures, &c.

Sciatica pain.

MAny there are who are troubled with very sharp pains of the Sciatica, they being of a Cholerick temper, and it being Summer, Such persons I did not torment with hot Medicines, but I opened a Vein ; and after a purging Clyster, I gave them another Clyster made of Broth, with *Laudanum* in it. So I cured your *James*, that Witty Scoffing Companion.

The 353 Observation or History of Famous and Rare Cures, &c.

Tetters or Ring-Worms.

A Boy ten years old was vexed with a Tetter ; which did sweat forth a blood-watry matter. The Wind coming North, that filthy matter was suppressed, and turned to his Lungs and caused an Horrible shortness of Breath ; which ceased so soon as the Wind turned South again.

The 354 Observation or History of Famous and Rare Cures, &c.

To draw Matter out of an Imposthume.

A Souldier being wounded in the Breast bled not at all for seven days together. With the advice of a Chirurgeon we applied a Plaister to the Wound, which drew forth an abundance of matter. *Sigillorius* had also a Tumor which came to suppuration ; but being not well opened nor in season, he was in danger of his Life, the matter being concentrated and kept in, which I drew forth with the help of this following Plaister :

Take *Rozin* of the *Pine-tree* new, clear and sweet smelling, one pound. Oyl of *Bayes* and *Turpentine*, of each two ounces ; *Gum Elemi* four ounces. The *Rozin* and *Gum* must first abide in the pan till they are mixed ; afterward add the *Turpentine* and the Oyl, and let all boyl together again ; then strain them through a coarse Cloth. Spread a part thereof upon Leather. Make a Plaister and lay it upon the Wound. Renew it in Winter only once in a day, but in the Summer twice in a day, and you shall see wonders. Neither do I think there is any thing more certain in all my Observations, as you may

may learn out of Pareus, his 10. Book, Chap. 30. Touching Wounds in the Breast and Chest. Now the foresaid Plaister must have two or three long slits in it in the middle, that the matter which is drawn, may flow out easily.

The 355 Observation or History of Famous and Rare Cures, &c.

To assuage the pain of Tetters.

A Mettlefome Woman troubled with a cruel Tetter with extream pain, all other Remedies being tried in vain, was wonderfully eased with this following Pultis.

Take six rotten Apples, draw them into pulp through an hair Searse, and add thereto Oyl of Roses, two ounces, and a little Brest Milk, and make a Cataplasim, and lay it upon the part pained. I have found by long Experience, that rotten Apples do more assuage pain, than Roasted or Boyled ones, which always retain somewhat of the fire in them.

The 356 Observation or History of Famous and Rare Cures, &c.

Summer-Feavers of Children.

IN the Moneths of July, August & September, a great number of sucking Children died, which our Women said were troubled with the Worms. But I avouch, that their Death was caused by the sharpness of their Nurses Milk, wherewith their Stomach is inflamed, for their Hands and Feet are cold, they are extream thirsty, very unquiet, apt to vomit, and have a Loosness, as my self can witness. Wherefore they must be let blood, and then this following Cataplasim must be applied to the Stomach.

Take Barley meal one pound; the Crummy part of White-bread, four ounces: Boyl them gently in Goats-milk, adding afterwards Juyce of Nightshade, one ounce: Oyl of Roses as much as shall suffice. Mix all into a Cataplasim to mitigate the pain of Inflammation. We must also change the Nurse, and give the Child the Mucilage of Flea-wort seeds in a Spoon with a little Sugar of Roses. Also Chicken Broths qualified with Purslane, Sorrel, or Lettuce. Also we must apply Pidgeons or the like Creatures cut down the back, to draw forth the raging heat of their Stomach.

The 357 Observation or History of Famous and Rare Cures, &c.

Worms.

OUR Women are of Opinion, That all Children have Worms; but when they void none; the Women say the worms are turned into putrid Excrements: And it is well said. For seeing Worms put into a Glass and covered with warm dung do soon turn into a Paste: Why may not the same thing happen in our Bodies, whose heat resembles that of hot dung, the Worms being killed by bitter Medicaments? This seems to be very rational.

The 358 Observation or History of Famous and Rare Cures, &c.

Symptomes of the Mother.

A Melancholick Woman subject to fits of the Mother, did once a day void a great Quantity of Urine, crude and without any colour: which being voided, a world of Symptoms presently followed, coming as it were out of the Trojan Horse: to tell the Cause whereof, I count it extream difficult. For sometimes she had a pain in her Head, sometimes her Heart panted, some-

sometimes she swooned away ; sometimes she was Stomach-sick : sometimes she did sweat in her Neck and Forehead ; sometimes she shivered all her body over. But whence came all these Symptoms ? I conceive verily they ought to be referred to the Womb, which is the sink of Womens bodies. For seeing the foresaid Symptomes came not till she had voided her Urine, I am of this Opinion, that her Bladder being full and resting upon her Womb, did with its Bulk keep the Womb fast and close. Whereupon the impurities and vapors contained in the Cavity of the Womb could not freely play their Rekes in other parts of the body ; but when the Urine was voided, those putrid Humors became free, and caused those Various accidents.

The 359 Observation or History of Famous and Rare Cures, &c.

An horrible Vomiting.

A Maid of 25 years old complained of a pain in her Spleen, which was very inward ; after which followed a Schirrhous or hard swelling. She vomited every day at several times twenty or twenty two pounds of a greenish Humor. In November she fell into a terrible Drop-sie, and the 16 day of January she died. ¶ I saw a Countrey-man who vomited almost every day, but at several times 20, 25 or 30 pounds of that greenish Humors, who was cured by the use of steel, and he became perfectly well. Which verily is worth the marking.

The 360 Observation or History of Famous and Rare Cures, &c.

A Catarrh.

Nothing does more stop a Catarrh or Flux of Rheum, than this following Cataplasim of *Rulandus*.

Take strong Leven two ounces. Amber powdered two drams. Make thereof a Cataplasim, and apply it to the Crown of the Head, after the Hair is first shaven away.

The 361 Observation or History of Famous and Rare Cures, &c.

A Fever caused by being in the Rain.

MAny wet with Rain become sick, and very often they fall into a continual Fever, the transpiration of Excrements through the pores of their Skin being hindered, which is very apt to breed Fevers. After blood-letting, I have found nothing better than to open the pores again, with a sweating Decoction.

Take Sarsaparilla one ounce ; Carduus seeds half an ounce ; Scabions, Mary-golds, of each half an handful. Make a Decoction of all together, and let the strained Liquor be drank hot, with a little white Wine, or a few Drops of Treacle water mingled therewith : I have seen many Physicians, who never thought of Sudorificks in this case, yet when they saw the effects of my sweating drink, they could not but commend the same.

The 362 Observation or History of Famous and Rare Cures, &c.

A Prognostick of the Small Pox.

AS many as I have seen sick of the Small Pox or Meazles, having their Belly distended, and making a Noyse, with unquietness, tumbling and tossing, I Observed, that they all died within few days, especially if pain were joyned with other Symptoms.

The 363 Observation or History of Famous and Rare Cures, &c.

A Prognostick from the Constitution of the Air.

IN the year 1640. in the Moneth of *October*, upon the twelfth, thirteenth, fourteenth and fifteenth days, so great a cold happened, that all our Brooks and Rivers were frozen with Ice, In *February* following, Pains in the Side were very rife, of which many died.

The 364 Observation or History of Famous and Rare Cures, &c.

A Prognostick in a continual Feaver.

I Have seen an infinite number of Patients, who being sick of Feavers slept not at all, yet remained quiet without complaining, and never speaking unless they were spoken to, and asked a question. And if you went about to feel their Pulse, they would pull back their trembling hand, as if they were afraid of their life. I have observed, that all such persons bade the World adieu.

The 365 Observation or History of Famous and Rare Cures, &c.

Rottenness of the Teeth.

I Have seen many in this Climate tormented with the Tooth-ach, by reason of rotten and hollow Teeth. I was wont to fill the hollow Teeth with Turpentine, and to burn the Tooth with a red hot Iron; which succeeded very happily.

An Observation communicated from M^{sr}. Dabadi, a most Famous Physitian at Tholous.

The 366 Observation or History of Famous and Rare Cures, &c.

Scabbiness with Itching in a Man of eighty years old.

THe most Illustrious Senator and Dean M^{sr}. *de Maussac*, being near the age of Four-score and Four years, naturally of a Constitution mixt of Blod and Choler, in which Choler prevailed, moderately fleshy and of a proper stature, and well shaped Body, with a nimble Industrious Wit, and a rare faculty to debate Causes of Law, not ordinary for one of his years: In former times he enjoyed his Health very well, finding no alteration from the Weather whether hot or cold. Yet in the space of five years, three times he suffered some abatement of health by reason of Indigestion of his meat; not that his Stomach languished through age, nor through any fault in his diet. He was not given to Feasting, nor to please his Palate; yet he delighted in Sallats and Fruits that will not last; which though they seem familiar to our Natures, and easie of digestion, yet can they hardly be converted into good blood, whereupon bad Humors are collected, which putrifying upon any slight occasion, do often breed many Malignant Feavers, as *Galen* hints in the Second Book of the *Faculty of Meats*. And this I observed to have happened to this Venerable old man, first in *May*, the year after about Autumn; and lastly, but worst of all, about the time in which the *Pleiades* are wont to disappear; where-

whereupon he fell into an acute Feaver, which every other day had some exacerbation, after the Insult whereof he voided upward and downward an Excrementitious flegmatick Humor, which was at last mingled with Choler, with great unquietness and heart-burning which are signs of at least a bastard *Cholera*: out of which dangerous condition he escaped upon the seventh day, Nature driving out the Reliques of the Morbifick Matter to the skin, whereupon arose a filthy itch all his Body over, but especially in his Legs, and chiefly in his left Leg, where arose a red fiery swelling, the matter whereof being in a manner discuss'd, there remained an inflammatory disposition like the Shingles of St. *Anthony's* Fire, with painful itching, often provoking him to scratch, springing from a mingled pruritus matter, salt, sharp and pricking, which was shed abroad through both his Legs; arising from a mingled *Cacochymia* and *Cachexia*, which is familiar to old men; and it was so much the worse, because both his Legs did a little swell, which shewed great weakness of his Liver and other Bowels, which being weakned (especially his Liver) with the foregoing heat of the Feaver, it was much to be doubted, Whether (in so great age especially) they could be restored to their ancient good Condition.

We began the Cure with a vomit, he being enclined thereunto, that we might empty the evil Humor floating in his Stomach. Then we purged him downwards with a gentle purge. But when the Disease would not give way, we begun to think of opening a Vein, about which we were divided in our Opinions: his old Age and a *Cachexia* begun, which was clear from his extream itching and the swelling of his Legs and Feet pleading against blood-letting. Howbeit his Feaver growing more intense, he was let blood, and not without cause; seeing that it is better to run a hazard, than certainly to perish. Bad blood came away, he bore it well, and had his Crisis on the seventh day, the reliques of the morbidick matter being driven out into the habit of his Body to his Legs. After some days we thought fit again to purge out the ill Humors that were gathering head afresh, that we might more safely use a Bath of fresh water, to procure transpiration, to temper the heat and Acrimony of the Humors and Vapors, also to open the skin and let them forth. After the Bath had been used divers days, his itch became more troublesome than before, the ill Humors being drawn from the Centre to the Circumference, which had not been sufficiently purged forth. Wherefore because our Patient refused to take any more Purges, I resolv'd to draw the Humors away by little and little with a gentle Lenitive, and to try what Asses Milk would do, which *Hypocrates* sometimes used instead of a Lenitive and purging Medicament, as may be seen in the fourth Book *de Dieta Acutorum*. And the event was according to my desire; for having a whole Moneth together drunk of Asses milk, his Belly of it self very dry and costive was loosened, and he voided abundance of excrementitious Humors, in the place of which good Humors bred, and the Dregs of his gross Humors being attenuated, his Hemorrhoid Veins opened, by the flux whereof he was restored to his former Health; yea, and became more lusty. I say nothing of the strengthening things we gave him, nor of the Ointments and other outward applications to mitigate the itch; and when the fervor of the Shingles was abated, to discuss the remaining Morbidick matter; all which did much good to our Patient, by the blessing of Almighty God, the giver of Health and all good things beside.

An Observation communicated by M^r. Antonius Jodon, a Renowned Physitian at Autissiodore.

The 367 Observation or History of Famous and Rare Cures, &c.

A Dropsie of the Stomach.

IN the Year 1620. a Woman somewhat tall of stature, forty eight years old, named *Joan Delier*, Wife of a Citizen of this City, believed that she was with Child, her Belly growing still bigger and bigger. But when she knew the time of Child-bearing was past, she went to a Physitian who presently told her she was fallen into a Dropsie. Medicines being taken

taken in vain; the swelling of her Belly continuing three years together, (she still following her ordinary Employments) it grew at length so great, that she was scarce able to bear so great a Burthen. At last she fell into a continual Fever, with shorter breath than before, and an unquenchable thirst, together with much tumbling and inquietness. Within the seventh day she died. whose body because it could not be inclosed in a Coffin, because of the extream greatness of her Belly in all parts thereof, being desired of her Parents, I cut her Belly, and so great a quantity of Wheyish Liquor came out, that it weighed above Ninety pound weight. At last there came a thick and troubled Humor, which was the grounds and setlings of the Wheyish excrement. Which being done, and sponges put into the holes which we had cut to let out the Hydropick Humor, We proceeded in an orderly way to dissect her whole Belly, and when we looked for the *Peritoneum* that we might dissect the same, (a strange thing to say, but more strange to see) this Membrane whose office is to cover the Natural parts, did so strongly cleave to the forepart of the Stomach, that it could not be parted without breaking or cutting, Yea, and we found our stopple which we had left in the Wound, slipt into the Cavity of the Stomach. Before the cutting up whereof, we did consider a while its usual greatness, and its two Orifices, the Stomachus and Pyrolus having both the same scituation, and touching one the other, the Caul possessing the other Region, the Liver sound enough, which yet the swelling of the Stomach did bear up, the Heart (with the Midriff between) bearing heavy thereupon, had set its print upon it, as if it had been upon Wax. No wonder she was so troubled with shortness of Wind for two years space. The rest of her inwards, as the Spleen, Kidneys Guts, Mesenteries, Gall-Bladder, Piss bladder and Womb were found, and little altered by the heat of her Fever. These things thus observed, we drew forth that mighty stomach with the Gullet & Gut *Duodenum*; and being cut open through the middle, it was above a Paris Ell-broad; in the lower part thereof we observed a serous Mudder, being the remainder of the setlings of the foresaid Hydropick Humor. All the fibres of the inner Membrane were far separated one from another. There was no fault in either of its Orifices, save that in the middle of the Pylorus in its uppermost part, there hung a Bladder half a Finger long, and a little thicker than a mans Thumb, full of transparent Water, and entring almost into the Cavity of the *Duodenum* Gut. We observed also the inner Membrane of the Stomach, studded as it were with many little water bladder-kies, part whole, and part eaten asunder. And these are things (if I mistake not) never observed before by any mortal man; I am sure I never read or heard of the like. Now when I considered seriously with my self, what should be the Cause of so unwonted a Disease as this, being a Dropsie proceeding from the Stomach; I could lay the fault no where else, but in an habitual cold and moist distemper of the whole Stomach, which when it drew nourishment from the trunk of *Vena Porta* by the *Ramus Gastricus*, and other branches, by reason of its distemper it turned the nourishment into a Wheyish Excrement, just as the Liver does, when a Dropsie is caused thereby. And the said cold and moist distemper of the Stomach came by much drinking of cold Water, eating of raw Fruit, and other such like causes. And for as much as by reason of the great looseness of the fibres of the Stomach, and the perverse figure of that part, the lower Orifice was scituate just even with the upper, the meats did easily pass from one to the other, so that they were not drowned in that vast Whirle-pit of Serosities, but were in some measure Chylified in the Gut *Duodenum*; for all grant the Guts can make Chyle, and Nature when necessity compels may render their Chylifactive power more effectual than ordinary. Now the Stomach did not expel the Water by those open passages, because its fibres were resolved and deprived of their activity by the plenty of moisture wherewith they were soaked.

*Observations communicated by M^r. Francis Chomel,
the Renowned Physitian of the An-
nonæensians.*

The 368 Observation or History of Famous and Rare Cures, &c.

The Iliack Passion or Miserere mei.

A Certain Man being five days troubled with the Iliack Passion, so that he vomited up his dung, and many Medicines being tried in vain, he took an ounce of Quick-silver killed with Brimstone, enclosed in a little ball of wax. Presently after he had taken it in, Fomentations were continually applied, and Clysters frequently injected. After some hours, little Bits of Wax were seen in a Clyster which came from him, which was a token that the passage was open, so that a Purge being given him, he was perfectly cured of his Disease.

The 369 Observation or History of Famous and Rare Cures, &c.

The Efficacy of an Issue.

A Certain man long time afflicted with pain in his Loins, when nothing would help him, at length he died. Among other Remedies, a little before his death an Issue was made in his Thigh four fingers above his Knee, out of which when the crust fell off, there flowed a kind of bloody watrish substance, about the quantity of half an ounce; but afterwards there came out of the Issue every day an ounce of the true and well conditioned matter or quittor, or more. The Chirurgion wondered and could not devise whence this matter came. The Man being dead, and his body opened, his Lungs were found full of matter, which was the chief cause of his death. And in his Loins a great Imposthume was found, from whence that continual and stubborn pain proceeded. And from the said Imposthume unto the Issue was found a gutter or little Conduit-pipe, by which some part of the Quittor flowed from the same Imposthume out at the Issue. By which we may gather, what industry Nature is wont to use in expelling Morbifick Causes, who framed that same Conduit-Pipe to purge the Imposthume in the Loins by the Issue; howbeit she could not bring to pass what she intended, being overcome by the greatness of the Disease.

The 370 Observation or History of Famous and Rare Cures, &c.

A Tertian Ague.

THE said M^r. Chomel told me, That he was wont to Cure all Tertians in a manner, by giving the Patient an hour before the Fit a good draught of the Decoction of Chamomel and Cream of Tartar, and presently after the Medicine was taken, letting the Patient blood. If he had no Decoction ready, he was wont to give the Patient a draught of cold water, and the same effect for the most part follows. He conceived that the water, by means of the blood-letting was drawn into the Veins, and that it did temper the morbidick matter, and kept it from fermenting or working, by which means the fit was hindred.

The 371 Observation or History of Famous and Rare Cures, &c.

Pain of the Chollick.

A Young Maiden of the Age of 14 years, was vexed with a most cruel pain of the Cholick, with a swelling of her Belly, which could not be mitigated neither by Clysters, nor purging potions,

potions, nor by potions to kill Worms; only it was allayed by a luke-warm Bath; but when she came out of the Bath it returned, and within twenty days brought her to her grave. Two days together immediately before her death, she voided a great quantity of exceeding black blood by stool. Her Body being opened, much glassie Flegm was found sticking to the outer Coat of her Guts, and during the whole length of her Guts, it was dispersed here and there in bits of different greatness, so that some were as big as Beans, others no bigger than hase! Nuts. In her Veins and in the Ventricles of her Heart, we found no blood at all, because Nature with all her might had driven it into the Guts, where it turned black, as all blood out of the Veins is wont to do, and before her death was voided forth. Where we are to observe the seat of the Matter which caused this Cholick pain, which is not spoken of by Authors, viz. the outward surface of the Guts.

*Observations received from M^r. John Marfin a
Skilful Apamienfian Physitian.*

The 372 Observation or History of Famous and Rare Cures, &c.

Bottle-bellied Dropsie.

IN the Year 1642. in the Moneth of *October*, I was sent for unto a Boy of 14 years old, who, after the small Pox, had been troubled with the Dropsie for a Moneth together; he had no Feaver; yet was so weak, that he was fain to keep his Bed. I prescribed forthwith an Aperitive and Water-purging Apozem, the same which is described in the Practice of Dr. *Riverius*, in his Chapter of the Dropsie. And after the use of the Apozem, I ordered him to be smoaked as it were in a Stove, with aperitive and dissolving materials for three days together, once in a day. Whereupon he was perfectly well.

The 373 Observation or History of Famous and Rare Cures, &c.

*Inflammation of the Testicles, with suppression
of Urine.*

THe same year in the Moneth of *Decem.* I visited a man 50 years old troubled with an inflammation of his right Testicle, and with suppression of his Urine. I prescribed him a Clyster partly emollient and laxative, partly expelling Wind; and when that was come away, I caused him to bleed eight ounces from the *Vena Basilica* of his right Arm. I caused his Reins to be anointed with Oyl of Scorpions of *Matthiolus*; and after he was anointed, I caused a Pancake made of Onions, cut in small bits, and Eggs beaten together with Hogs Grease, to be applied to the same part. And the day after I gave him a Bolus of *Cassia*, Diaphanicon and powdered Rhubarb. Hereupon he pisset lustily. And for his inflamed Testicle, we made a Cataplasim or Pultis of Bean-meal boyled in Vinegar and Water unto a just Consistence. Which Medicine being applied three days together unto the part afflicted, he was restored to his former health.

The 374 Observation or History of Famous and Rare Cures, &c.

Urine stopt.

THe same year and Moneth, I met with a Woman 40 years old, fat and well fleshed, troubled with a stoppage of her Urine. She had a Feaver but not very strong; and her Urine which she made in very small quantity was very red, with a great pain about the Reins of her Back:

back : finally she vomited ever and anon by fits. Many Emollient, Laxative and Wind-ex-pelling Clysters were given her, but in vain ; she was twice let blood, viz. in her Arm and in her Foot. Also Oyntments and Fomentations were applied, as in such cases is usual. A Bolus was given her, made of *Cassia*, *Diaphanicon* and *Rhubarb*, but all in vain. At last I applied the Pancake commended in the former Observation, to her Reins, with the which she slept quietly, pilt plentifully, and found her self very well. The like success befell me in another Patient, two having an acute Feaver, without any pain of the Reins, yet was not able to make water : the foresaid Pancake being applied, he pilt afterwards, and his Feaver being chased away, became perfectly well.

The 375 Observation or History of Famous and Rare Cures, &c.

A Fistulous Ulcer.

IN the Moneth of *January*, Anno 1643. M^r. *Ferries*, a *Variliensian*, being fifty five years old, of a very Cholerick Complexion, and one that wearied himself with many Cares and Labors, desired me to undertake to cure him. He had been troubled four years past with divers pains in his Breast, caused by Humors falling down from his Head into the outward parts of his Chest. He had about the Bone called *Clavicula*, a swelling as big as a Hens Egg : but, which was worse, there appeared a Tumor on the right side of *Os Pubis*, as big as a couple of Goose Eggs, out of which, being opened, there had flowed for some Moneths together, well-conditioned matter or quittor : there was a deep Ulcer, almost half a Foot deep : for the healing whereof many Medicines were tried, but all in vain ; so that every one feared it would prove a Fistula. I set upon the Cure after this manner :

I prescribed first of all a purging potion, which was made to purge partly Flegm, and partly Choler. Then I caused him to be let blood. Then I gave him Apozems made of temperate Aperitives, Wound-herbs and Purgatives. When he had done with them, he took of this following Decoction twice a day for twelve days together.

Take Barley entire one pugil ; the Leaves of *Scabions*, *Sanicle*, *Moufe-ear*, *Vinca pervinca*, *Agri-mony* and *Pimpernel*, of each one handful. Seeds of *St. Johns-wort* and *Carduus Benedicinus*, of each two drams : Of the three Cordial Flowers, of each a pugil. Boyl all into a weak Hydromel, [that is, Honey and Water boyled together, the Honey being in small quantity] unto one pound and an half. Of the strained Liquor let him take six ounces morning and evening.

In the mean while, Injections were made daily into the Ulcer of the same Decoction. But when all would not do, but that all the foresaid Infirmities continued, I prescribed him a sweating Diet-drink for twenty five days together, made of a Decoction of *Sarsaperilla* and *Gua-jacum*, of each a like quantity. Of the remaining materials a Diet-Drink was made for his ordinary drink. And every sixth day of his Diet, he took a purging Medicament. Towards the end of the Diet-Drink, the Ulcer seeming to remain much as it was at first, I caused the Chirurgion to put a stick into the Wound, and cut the Skin and Flesh which was above it, being about a Fingers bredth deep, with an Incision Knife, that the Cavity thereof being opened, we might more easily apply convenient Medicines. The event did answer according to my wish, for that same spongy flesh being consumed, the Ulcer was in a short time healed up and the Patient freed both from the pains he felt, and from the fear he had conceived of a Fistula. To perfect and heal up the Cure, I ordered an Issue to be made in his left Arm, and that it should be kept open for a long time.

The 376 Observation or History of Famous and Rare Cures, &c.

The After-birth retained.

AT the same time, Madam *de Ruffia*, being aged Thirty five years, of a Sanguine Complexion ; having brought forth a Child with much pain and Labor, had her After-birth remain-
ing

ning within her Womb. We could not feel any Pulse that she had, her Face was like a dead Bodies Face, so that all seemed past hope. When I came to her, a certain Chirurgeon had given order, that some of her Hair should be cut off and burnt, and the ashes given her in a Cup of Wine: which being done, her After-birth came very happily away. Howbeit, her Child-bed Purgations were stopped, which cast her into a Feaver. The day after I caused her to bleed eight ounces in her right Foot (for her Pulse was very strong and full) and the day following, because she was costive, I ordered that she should take this following Clyster :

Take Mallows, Violet Leaves, Pellitory and Mercury Leaves, of each one handfull. Flowers of Chamomel and Melilot, of each one pugil. Annis seed and Fennel seed, of each half an ounce. Boyl all in the Broth of a Calves-Head to a pound. In the strained Liquor dissolve Syrup of Violets and Red Sugar, of each one ounce, and give it for a Clyster.

When the Clyster was come away, she had a Vein opened in her left Foot, and bled seven ounces. By this means her Feaver was abated, her sleep returned, which formerly she was wholly deprived of, and by little and little, without any more ado by way of Physick, she grew well.

The 377 Observation or History of Famous and Rare Cures, &c.

A Salt Rheum, with inclination to a Consumption of the Lungs.

IN October, 1643. I was called unto a sick man 40 years of Age, of a Cholerick complexion, and of a lean and meagre Body. He was troubled with a salt and sharp Rheum falling from his Head upon his Lungs four years together; he had a very dry Cough, and obstructions in the parts under his short Ribs on both sides, with a slow continual Feaver. Add hereunto an Inflammation, which appeared by a pain about his Breast-bone, and the *Vertebraes* of his Back.

I ordered him in the first place a purge made of Rhubarb, Tamarinds, Senna, Manna and Syrup of Roses, but in little Quantities. Then I caused seven ounces of blood to be taken from his right Arm. Afterward I made him take Broths made of temperate Aperitives, for 12 days together, sleeping all night in every third Broth, half an ounce of Senna, and dissolving therein an ounce of Manna. When he had done with his Broths, he went into a luke-warm particular Bath made of a Decoction of Barley and sweet Almonds, twice a day, three days together. At the beginning of the Cure, I caused two Issues to be made between his Shoulder-blades, two fingers breadth distant from the Back-bone, on either side thereof: and I gave order, that once a week a Cupping-Glass should be fastened upon the Issues. Which Remedy prevailed so much in this Patient, by reason of the Serosities, which in great quantity were drawn away every time the Cups were fastened, that I attributed the whole Cure in a manner thereunto.

The 378 Observation or History of Famous and Rare Cures, &c.

Inflammation of the Eyes.

A Certain man of Thirty years old, of a Sanguine Complexion, but of a very moist Rheumatick Brain, was long troubled with an Inflammation, which did possess both that Coat of the Eye which is called *Tunica Adnata*, and both the Eyelids. The Disease was not continual, but came by Fits. Many Medicines had formerly been used, but all in vain. At last I prescribed two Issues between his Shoulder-blades, and caused a Cupping-Glass large enough to cover them both to be applied, so often as the Rheum was more than ordinary. Which being done, his Eyes became perfectly well. This following Oyntment did not a little further the Cure, which he used at the beginning, as soon as his Body had been purged, and a Vein opened.

Take

Take Verdugreece twelve grains ; Camphire and Lapis Calaminaris, of each half an ounce ; Tutty prepared, half a dram ; fresh Butter washed in Rose-water, two ounces. Mix all into an Oyniment.

The 379 Observation or History of Famous and Rare Cures, &c.

A Malignant Feaver.

IN the Moneth of *May*, 1644. a Woman thirty years old, desired me to take her into Cure. She had been sick two days of a Malignant Feaver, with a pain in her Head, continual inquietness, extream thirst, and certain blewish Spots about her Brest and Back. Thrice in two days I caused her to bleed eight ounces at each time, and because she abhorred all inward Medicines, I bethought my self of some that might be outwardly applied. On the fifth day of her Disease, I caused a Cataplasme of Snails beaten with their shells into a Mass, to be applied with Tow upon the Soles of her Feet. This Medicine was applied about three of the clock in the Afternoon ; and when it began to draw towards Night, the sick Woman began to feel a certain grievous and troublesome pain in both her Thighs and Legs, which continued till midnight so fierce, that she always made her complaint, desiring the Cataplasme might be taken from her Feet. And at midnight she sweated all over her body with such a filthy stinking smell, that she her self could hardly endure the same. Having shifted her Linnen, the Cataplasms were taken from her Feet, which did so stink as that had they almost poysoned the By-standers. In the morning I found the Woman cheerful, her Feaver and other Symptoms being very much abated. And I conceiving she was past all danger, thought good to do no more to her ; only I prescribed her a Purge, which notwithstanding through extream self-willedness, she refused to take ; howbeit, a little after she perfectly recovered.

The 380 Observation or History of Famous and Rare Cures, &c.

The Gout.

IN the Moneth of *February*, 1645. a Gentleman of a Sanguine Complexion, fat and well fleshed, was for three days troubled with the Gout in his Knees. As soon as I visited him, I crdered him to bleed a pound of Blood : which appearing very impure, the day following I caused him to bleed as much more, whereby the Patient found himself much relieved, the blood being as bad as the former. Then I caused him to bleed the third time ten ounces ; and the day following I gave her a Purge made with Senna and Rhubarb in a convenient Decoction, with Diaphoenicon and Syrup of Roses ; after which he was perfectly well.

The like success befel me in two other Patients which were of the same temper and corpulency, in whom blood-letting three or four times repeated at the beginning of the Cure wholly took away the Disease, the part being fomented with Vinegar and Water mingled together, and afterwards anointed with Oyl of Roses.

*Observations received from M^r. Des Grands Prez, a
most Expert Physitian of Grenoble.*

The 381 Observation or History of Famous and Rare Cures, &c.

A Swelling of the Tongue.

A Certain Person infected with the Whore-Masters Pox, was cured with Mercurial Frictions, which by order of the Apothecary, being used more frequently and longer than the Physitian had prescribed; the extream violence of the Flux, had so swelled his Tongue, that it hung out of his Mouth the bredth of four Fingers. Which to Remedy, the Physitian would prescribe nothing, taking it hainously that the order by him prescribed had been neglected and exceeded. Whereupon the Patient continued in this miserable condition for the space of four Moneths, and his Tongue being altered by the Air, was grown three fingers thick. I being sent for, after blood-letting, washing of the part affected, and a Seton fastened in his Neck, ordered a powder to be applied to his Tongue, made of Pepper, Ginger, Mustard-seed and parched Salt. With the use whereof his Tongue began to grow soft, and to move it self the first day. The third day I ordered them to wash it oftentimes in *Aqua Vitæ* very well rectified; so that upon the fourth day it appeared much softer, and might be thrust into his Mouth, howbeit it would come out again presently. But afterward perceiving certain Ulcers in the lower part of his Tongue near the Veins called *Ranula*, which proceeded from the grating of the Teeth whereupon it rested; I caused the said Ulcers to be washed with the white Water made of white Precipitate, and I ordered deep Scarrifications to be made about the foresaid Veins. By which means, within few days the Tumor was wholly disscut, and the Tongue brought to abide within its proper Quarters.

The 382 Observation or History of Famous and Rare Cures, &c.

A Dumb Person cured by Accident.

A Certain Beggar was entertained in way of Hospitality by a wealthy Farmer, in whose House he remained certain days by reason of a Dumb and deaf boy he had brought with him who was the same night taken with a continual Fever. At length the Beggar being out of patience and despairing of his recovery, he slipt privately away and left the Boy behind him, who recovering his wonted health, was by the Farmer set first to look to his Lambs, and after that to keep his Sheep and Wethers, which service he performed excellent well. Now it fell out some years after, that being at Dice, he was struck over the pate with a thick Cudgel, and the hinder part of the Skul was broken into many pieces. Howbeit by the industry of a Skillful Chirurgeon he was Cured of that very dangerous hurt. And as he grew well his sense of hearing began to come to him, and he began to mutter and babble some words, till that at last he attained to hear and speak perfectly: in which condition he lived to the forty fifth year of his Age, serving as Vine-Dresser, to M^r. Pajanus, Proctor of Grenoble; and it is scarce two years since he died.

The 383 Observation or History of Famous and Rare Cures, &c.

Depression of the Skull.

IN many a Depression of the Skull has been cured, a Cupping-glass (after once or twice blood-letting) being fastened upon the depression with much flame; and sometimes Incision is added with many Scarrifications, and sometimes without them. Among the rest, I shall instance in one remarkable Patient named *Arthaudus*, a Proctor of *Grenoble*. This man being upon a far Journey, met his Enemy and was struck on the *Os Parietal Sinistrum*, with which blow he was struck to the ground, and left for dead. Being carried thence into a Neighbour Village, two Chyrurgeons did undertake to cure him, who used only blood-letting and Cupping-Glasses, without any regard of his Wound, because they could perceive no manifest solution of Continuity. I being sent for, found the man wallowing in blood, which came out of his Mouth and Nostrils, with Stomach-sickness, and almost perpetual vomiting, hardly knowing them that were about him. Speaking with great difficulty, and not so much as opening his Eyes. Having viewed his whole Head, when I did but touch his Skull where it was dented in, never so little with the top of my finger, presently he began to be Stomach sick. Which having observed, I ordered the Chyrurgeon to shave that part, and apply a great Cupping-Glass thereunto with much flame, which though it rested upon the sound and solid parts, did so much pain the Patient, that not being able to speak, he shrunk down muttering into his bed. But after the Cupping-Glass was removed, and Incision made upon the part affected, and the Cupping-Glass again set on, he was so far from being pained, that he perceived great comfort thereby: and thereupon began to speak to me, and knew all the By-standers. And though seven or eight ounces of Blood were drawn away by the Cupping-Glass; I ordered nevertheless that the next day he should be again let blood. And thus the sick man, a few days after, recovered his perfect health.

The 384 Observation or History of Famous and Rare Cures, &c.

Consumption of the Lungs.

THE third Son of the Lord *de Perissol*, President in the Parliament of *Grenoble*, being fourteen years of Age, was brought from *Geneva* to *Grenoble*, in the eighth Moneth of his Disease being consumed with Leannels and Consumption of the Lungs, with a very great Loosness, so that I foretold his Father he would shortly die, because of an Ulcer of his Lungs, which he cought up bit after bit, and those bits being laid upon the hot coals, they stunk extreamly. Also his breath smelt so strong, that it did not only infect the sick Mans Chamber, but was smelt all the Stairs over, by those that lodged near. All which considered, I said I could appoint him no other Medicine than a Womans Milk, which he must suck from the Dugs of an healthy well disposed Nurse. Which putting in Practice the next day, the Patient was something better the day after, and within two months he was perfectly thereby recovered. This Disease arose from a Pleurisie ill cured, which was changed into an Empyema, and the Empyema into a Consumption of the Lungs. This very Medicine I have experimented in many other persons, in my self and Son, and two Gentlemen who did spit blood in great Quantity.

The 385 Observation or History of Famous and Rare Cures, &c.

Pricking of a Nerve.

A Certain Merchant of *Grenoble*, smiting upon a Table with his Head doubled in, struck a Needle unto it, which stuck in a clue of thred. For two days together he felt no inconvenience thereby, but the third day so great pain arose in the part, continuing for divers days

days following that it could not be asswaged, either with blood-letting, Fomentations, Cataplasms or Anodynes. Observing the contumacy of this pain, I questioned the Chirurgion whether he did ever know that this Patient was troubled with the Whore-Masters Pox; he told me, that three years agoe indeed, he was troubled with the Gonorrhæa and putrifaction of his Yard, but was perfectly Cured thereof. Forthwith I prescribed him a Suffumigation of Vermilion, Storax, Benjamin, Frankincense and Herbane seeds, mixed with Turpentine; where-with only his hand was smoaked, and presently he was better; and the Medicine being continued a few days, he was perfectly Cured.

The 386 Observation or History of Famous and Rare Cures, &c.

A Quartan Ague.

I Have cured many of the Quartan Ague, whose happy Cure, after Universal Medicines, I have chiefly attributed to *Oleum Magneticum*, Oyl of the Load-stone, which has no visible or otherwise sensible operation. I give two or three drops thereof in a spoonful of Wine, at the beginning of the Fit. And thereof I make my *Pilula Febrifuga*, or Ague-Quelling Pills.

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The Falling-sickness.

I Have often tried, and can prove the same by many Witnesses, that the Peony gathered under its proper Constellation, viz. When the Moon is descendant in the sign of *Aries*, does remove the Falling-sickness only by external Application. And I caused a certain Virgin of eighteen years of Age, who had been troubled with this Disease from her Child-hood; and dayly fits, being in the Hospital, to wear it about her Neck and Arms. After which she was perfectly cured. Hence it is apparent, of what Consequence Astrology is, in the Practice of Physick.

Observations communicated by Dr. Henricus Rufus, Practitioner among the Sammarcelinensians.

To Mr Dr. *Lazarus Riverius*, Councellour and Physitian to the King, and worthy Professor of Physick in the University of *Montpelier*,
Henricus Rufus sendeth Greeting.

Since the time that you (most worthy Professor) have shined as a new Star in this Province, no wonder it is that all Eyes are intent upon you, and seeing that by your light you do exceedingly refresh and cheer us, it is fit we should extol and praise you, being made happy by your Influence. For he that does not know your Vertues and worthy Life, has at least heard of you and wished that he might be better acquainted. I will not insist upon the Gifts of your mind, and excellency of your discourse sweetned with Learning. So many People as at *Grenoble*, and every where in the *Delphynate* you have recovered from the Jaws of Death, cannot, nor ought to conceal your praises; only there is one thing that does afflict and make us miserable, viz. That the *Narbonensian* Province, and *Montpelier*, will not let us longer enjoy your presence. Howbeit no place can wholly want you (renowned Doctor and Professor) for besides what was said before, your most accurate Practice of Physick which you have published, does comfort us in your absence, and gives

this advantage to the Common-wealth of Physitians, that we can have your advice though your self be absent: And yet this is not the end of your Labors; for in the midst of so many weighty Employments which take you up in the University of Montpelier, and the importunities of so many sick Persons, which seek unto you for Health, you are busily composing another Book of your Observations, not regarding your Health, nor diminishing your Studies, that you may add Lustre to the Art of Physick. Which though of your self you could sufficiently accomplish; yet it is your desire to adjoyn the Observations of divers Friends: neither have you disdained to desire my poor Observations, who was once your Scholar, and do account it my Glory to have learnt the Rudiments of Physick from your Mouth. I have yielded to your command, though not ignorant that I bring Water to the Sea. If you shall read them, and find some things therein not conveniently expressed, I am well content (worthy Sir) that they should be corrected by you, to whom I have vowed eternal Service and Veneration. Farewel, and live long to bless me, and the whole Tribe of Physitians.

From my poor Study,
The Ides of July 1645.

The 388 Observation or History of Famous and Rare Cures, &c.

A Monstrous and unwonted Hiccup.

ANno, 1634. in the Moneth of December, A Tailor of fifty years old, by reason of Fasting, cold, and journeying, fell into the Feaver *Ephemera*, which within twenty four hours was disscussed by plentiful sweat: so that the following day, he continued free from his Feaver and Head-ach until eight a clock; howbeit he had no appetite to meat, and was very sleepy and sluggish. But upon the eighth day in the morning, he was again seized by the Feaver without any shaking; and a while after, towards the evening, he was tormented with a most grievous Hiccup, the noise whereof was heard four Houses off in the Neighbour-Row, and easily in the street without any truce or intermission. In the mean time, he was not very thirsty, and well in his wits, but very impatient of so cruel a Symptom. At eleven a-clock with coughing he vomited a crude matter not unlike corrupted flesh, which the By-standers took to be a piece of Marmalade of Quinces, which the Patient had eaten not long before. But the day following, he cast up a bit of the same colour and greatness, viz. red, and as big as a Hazel Nut; which I caused first to be washed in water, and then laid upon the coals, whereupon losing its red colour, which is left in the Water, and stinking extreemly in the broiling, it appeared to be (as I formerly guessed by the story) a piece of flesh with the Membranes, eaten off from the Oesophagus, or upper Orifice of the stomach, by an Ulcer which lay concealed in the said Oesophagus. Whether the Ulcer was bred all on a sudden, taking its rise the first day in which the man was taken with the Feaver *Ephemera*: or whether it was contracted long time before, is uncertain. Yet it is likely it begun not so soon: first, because no Inflammation or other Tumor had gone before, which is commonly attended by an Ulcer: Again, because that for many years he had been vexed with a light Cough, which brought up nothing visible. So that the Disease, which had long since rooted it self under the first Coat of the Oesophagus or Stomach, being produced by those external causes fore-recited, did all on a sudden discover it self. Now the Symptom was continual by reason of the Ulcer, whereof he died upon the fourteenth day raving: For the Hiccupping would remit nothing of its fierceness, neither with Blood-letting, Cupping, Deterfive Medicaments, Digestives, nor Purgers, amongst which Hiera is very much commended.

The 389 Observation or History of Famous and Rare Cures, &c.

*An Inflammation in the hinder part of the Brain, with
Symptoms therefrom arising.*

THe most noble and illustrious young Gentleman, *Monsieur de Lartbandiere*, thirty seven years of Age, fell into the Dog-days into a most grievous and sharp pain of his Head, which troubled him most in the hinder part, and towards the left side. He had an obscure and very light Fever, his Sences were vigorous, especially his Taste: howbeit he was mighty thirsty, and could take no rest. His Forehead was not at all hot, his Head but little, he felt no pain, though his Head were hard touched; laying our hands, one to his Forehead, the other to the Hinder part of his Head, we perceived his Brain to be shaken and pulled, within his Skull, and his whole Head did involuntarily shake this way and that way; his Urines were at first thick and white. Which things having observed, fearing there was a Phlegmone or Erysipelas in his Brain, I ordered him to bleed; first from the *Cephalica* or Head Vein, then from the *Mediana*, two pounds of Blood. The following days because the pain raged terribly, we caused him at several times to bleed two pounds more in the other Arm. On the fifth day we purged him; on the sixth day we drew half a pound of blood, with Cupping-Glasses fastened to his Shoulders. In the mean while, his Head was shaven, and bathed with Vinegar of Roses, and we omitted nothing which might reveal, derive or repel any kind of Humors from the Brain. On the fourth day of the Disease, there brake forth a small Tumor on the right side of his Tongue, which he found to be hard, hollow, and Ulcerated without feeling, and indeed no other than a Cancer. On the seventh day towards the evening, he raved a little, and soon after he began to sweat, first in his Face, and then plentifully over his whole Body, so that he hoped there would be a true and perfect a Crisis: his Sweat was wiped off, his Linnen changed, and he did Sweat again abundantly. And now he began to complain of the Cloaths, crying out that he was smothered, which being removed, and the sweat wiped off as before, we found him almost quite spent, and perpetually raving. His strength, which was very firm before the Sweat, we perceived to be wholly weakened, and in this condition he continued all night untill nine a clock in the morning of the eighth day. He raved and talked exceedingly, being forgetful of all that had happened, or had been done about him, during his whole Disease. About ten of the Clock he seemed to come to himself, and to remember some things, and so we should have had some hope of him, but that his Convulsive Pulse, and the trembling of his Limbs did declare his Brain to be extreemly disordered. Soon after he pist plentifully, and his Urine was Red and shined like fire. About the same time as the day before, towards the evening he raved again, which was so much the worse, because, having recovered strength, he became Frantick, and drove all the By-standers from him with great terror. At nine a clock in the morning, he came to himself again, and continued so until the evening, about which time, a swelling arose in his Neck, as big as an indifferent Apple, not painful, nor different in colour from the rest of his Skin, nevertheless he continued raving with a Convulsive trembling in his Hands. On the tenth day all things continued alike. Towards the end of the eleventh day, he died with Convulsions. And because he was one of an illustrious Family, and much esteemed by his Friends, and died so unexpectedly, his death not being foreseen till the seventh day, nor foretold, it was thought convenient to open his Body, that the cause of his death might be manifested to his Friends. The other parts of his Body were found in a good condition, all save his Brain: For his Skull being opened, great plenty of very black blood, but thin, flowed presently forth, before the Coats of his Brain were opened, and ere the Bone was well sawn asunder, it came out by the Saw; which blood being shed between the Skull and the Coats of the Brain, was guessed to be two pounds or more. When the Coats of the Brain were discovered, we found them diapered all over with little Veins, which swelled with black adust blood. And in the hinder part for the depth of two fingers, and the length of four, where the Torcular Brain-tunnel is said to be scituate, there was not only blackness, but the Membranes were of a bright red colour, and perished with a Gangrene: into which part, when I caused a Pen-knife to be thrust, presently there

there came forth five or six ounces of a purulent matter or quitor, which stunk. Afterward the Chyrurgeons making deeper incision, all the Basis of the Brain very near, especially the Cerebellum, and that part of the Marrow of the Back, which is contained in the uppermost Vertebrae, and upon which the swelling did arise, were found likewise Sphacelated and mortified. And the Coats of the Brain were on the left side eaten through with Ulcers, through which 'tis probable the blood had Issued out, which was found immediately under the skull. By the narration of all which, it is casie to infer, that the cause of that same sharp pain, want of Sleep, Ravings and Convulsions was the Solution of Continuity, in the hinder part of the Brain called Cerebellum, or the little Brain. Now two causes there were of the Solution of its Continuity, viz. an Ulcer and an Inflammation. The Ulcer being the principal cause, which was contracted some Moneths since, by means related to me, but not to be published, produced that little Ulcer in his Tongue, and made the Brain weak and subject to be inflamed. Now the Cholerick Inflammation was augmented, by the Patients youthful Age, his temper being Sanguine mixed with Choller, and by the hotness of the weather: but certain external Causes did especially further the same, viz. Swimming in cold Water, in the open Air, after he had been heated by abiding in the Sun and by being chaffed with anger. But the Causes, why so obscure a Feaver should be attended with so many terrible Symptoms, were these, The first was, because his Brain was only affected, and all other parts of his body sound. Secondly, because the Brain has of it self but little feeling, and is of a cold and moist temper. The third and most remarkable was, because the Brain is far distant from the Heart, and therefore the Spirits which pass to and fro in the Brain, being once gotten into those Labirinthian Contextures of Vessels in the Brain, can hardly return unto the Heart, and consequently do not communicate therunto the Contageon of the part affected.

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A Lingular Disease proceeding from the Lungs being blasted, of which a Maid died, never perceiving her self to ayl any thing, February. 1643.

A Virgin of good Parentage, being over fourteen years of Age (as many supposed) was taken away by Death. Two years before, she was given to sighing, she loved solitariness, and her Face and whole body was pale and white. Two Moneths before, when I visited her Brother, who was also wasted with a Lingular Disease, her Mother desired me to feel her pulse, whether she was Feaverish. I observed her pulse languishing and unequal, but without any Feaverish heat; wherefore, after I had a while considered her pale countenance, and questioned her Age, it came into my mind, that her Courses was about to come, which being by reason of the narrowness of the Veins and other passages hindered, Nature endeavoured to make way for them, whereupon the blood was by them infected, and stirred up those light Symptoms, as often happens to Virgins of the same Age, and her Mother and Kins-woman were of the same mind. Whereupon these things being done and said upon the by, I departed, resolving to inquire further into the matter, if her illness continued, or the Symptoms should grow worse. But these promises on both sides, being either neglected or forgotten, two Moneths after I was called in good earnest to the Maid; I found her Disease much more grievous, as being accompanied with want of Appetite and a continual Feaver, and intended or encreased towards Night, without any burning biting heat, or other sensible Symptoms or token; she was very much weakned, the circumference of her Nostrils did widen themselves as she breathed, and yet she had no great difficulty in fetching her breath, no thirst, no redness in her Cheeks, no want to sleep; as she lay on her bed, she Coughed a little without Spitting. Her Heart, being moved more frequently and strongly still towards the evening was perceived to pant by laying on of a bodies hand, she her self not perceiving the same; her Urines were thick, white, fatty, with a broken *Eneorema* or swim of the same condition. She never raved, she never lost a nights sleep, no not so much as the last night, in which quietly and without any pangs or struggling, she changed her life for a better. Wherefore because of her unexpected Death in respect of her Parents, and because thirteen more of the same Generation had died either before or at the time they became marriagable, it was thought convenient by her friends to open her. And in the

he first place, her body being uncovered, we saw both her sides, from her Arm-pits to the last Bastard Ribs, spotted with reddish black and blew spots like stripes. Her Bowels contained in the Belly were found, only her Liver was a little more black than ordinary, and her Stomach very small and coloured with Choller green as Leeks. When we came unto her Chest, from the Cavities thereof being dissected, there issued an abundance of venomous stinking Water, to the Quantity of four pints. 'Tis a wonder that it had not caused great difficulty of Breathing, while she lived, or that it had not been perceived to fluctuate by the Ear. Her Lungs we found blasted; also in their edges round about, we saw every where whitish specks, which did break with the lightest touch, and quitted with corrupt Humor came forth of them. Yea and the infection had dyed all the Vessels and Cavities of the Lungs with a light red colour. The Membrane *Pleura* and the intercostal Muscles were tainted with a greenish colour; the Midriff was well, but the Pericardium or Heart-Bag by reason of Neighbourhood, was withered, putrified and dried up. The Heart and Brain were found. All things being considered, it was determined and resolved, that this infection had its original from the Parents, either from the seed or blood. The examples of her Brothers prove the thing. And if this Disease in the Virgin had come from any external cause, some part of her Lungs would have been Diseased, and not the whole body of them. For she had not offended in her Diet, and course of Life: also her quiet death did testify, that the corruption in the substance and temperament of those parts was made by little and little, and came not by a violent cause. And again, forasmuch as she had no Cough, it is thereby apparent, that no flux or collection of Humors did corrupt her Lungs. Furthermore, as no man doubts that such Diseases are propagated from the Parents to the Children; so it cannot be denied, that they may easily be communicated; and we ordinarily find, that in Families infected with such Diseases, many are taken with the same Disease, either all together, or one after another; yea, and sometimes they are transmitted unto the fifth or sixth Generation, and infect other Persons that converse with them.

The 391 Observation or History of Famous and Rare Cures, &c.

Stones perpetually voided by Stools.

I Knew a Gentleman, who so often as he went to stool, voided with his Excrements stones of an uneven, Pointed superficies, of an Ash-colour, for many years together, not unlike in colour and substance to them which come through the Uretors from the Kidneys. These stones both with their bulk and sharpness did Vex his Fundament in their transition; so there is no doubt to be made of the stones, or of their perpetual Generation.

The 392 Observation or History of Famous and Rares Cures, &c.

Stones bred in all parts of the Body.

I Knew another honest Man who dwelt in the House of M^r. de *Leyssus* the Kings Councellor in the Supreme Court of the *Delphinate*, being his Secretary and Clerk of the Market, who could shew great and little stones in any part of his body; I have often seen and touched such stones upon his Flesh, Muscles, Membranes, Nerves, Bones indifferently: so that his Ears, Nose, Dugs, Eye-brows, were not without them; for they bunched out visibly, and appeared moveable to those that touched them; and if in one part they come to be dissolved, they grow in another, and they dayly encreased both in number and magnitude. The Person was also Nephritick, and once when I visited him, he shewed me upon the whirl-bone of his right Knee, a notable Tumor, full of such like stones distinct one from another, which were as in a bag, and rattled when they were stirred. Some Moneths after I came to him again, and he told me the same Tumor was become soft and smooth. I bared both his Knees, felt the swellings, and perceived indeed that they contained an Humor in them: an Incision being made, presently came forth three or four ounces of very white well-digested matter and thick, such as I have of-

ten seen to come from those kind of Tumors which are called *Steatomata*, that is, Tumors full of matter like Tallow or congealed fat. In his left Knee, because I felt certain firm Stones yet remaining, though with soft matter between, I did not open the Tumor, waiting till they were fully dissolved.

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Stones bred in the Spleen vomited out.

I Was cruelly troubled for four years together with the Stone in my Kidneys without any sensible hot distemper of my Kidneys or Liver, from which I was freed by little and little by Gods blessing upon the use of the vitriolated Aurelian Waters. But I had scarce left voiding of Stones and Gravel, when I was taken with most cruel pains in my left side, about the Spleen. The pain took up but a small compass, not reaching so far as my Navil or Belly, only my left Kidney did Sympathise by fits, and the left side of my Stomach, especially when I was disposed to vomit. This Disease after ten days began to break away, touching which I observed, that I was neither bound in my body, as is usual in the Cholick pains, neither was my Urine stoppt, which happens in the Stone of the Kidney: but contrarywise I voided abundance of Urin, in which you would have said there had been the powder of Tiles and Bricks dissolved, which quickly sunk to the bottom of the Chamber-pot: yet that thick settling was not rough or gritty, nor any way stonish, but it was quickly upon the least agitation mingled with the Urine like Chalk. I was vexed with the like fit, three or four times in the beginning of the Winter, using to mitigate the grievousness of the pain, with such Remedies are wont to be administred commonly for the pain of the Cholick, only I omitted bathing, which I formerly found did me much hurt. And seeing among other Symptoms, frequent and painful vomitings did chiefly afflict me, before which I was troubled with Anxiety and greivous Heart-burning: it came into my mind to make diligent enquiry what the Conditions of that matter were, which I vomited up in such abundance, even when my Stomach was empty. As for colour it was a dark red, in consistence like a Pultis, thick and clammy, and I found many little stones therein of Ash-colour somewhat yellowish, such as formerly I voided by Urine, and that not once only, but as often as I vomited with great straining and pain; or as often as the foresaid pain returned. This last year 1645. the pains grew mild by little and little, my Kidney pained me but little, but my Spleen and the left side of my Stomach pained me more than that, according to the old manner, but that the fits came not so often. By which I perceived, that the Seminary or Mine of these stones was first and last in my Sp'een, and in the Vessels thereof and that by the *Vas breve* (which by the Medicinal Waters and by vomiting, was made wide and open,) it sent part of its stones with abundance of black Choller into my stomach, which at first were carried only to my Kidneys.

Observations communicated by Dr. Simeon Jacoz, a most expert Costensian Physitian.

To the most renowned M^r. Doctor *Lazarus Riverius*, Councellour and Physitian to the King, and his Majesties worthy Professor in the most Famous University of *Montpelier*.

W Hat you lately desired, or rather Commanded me to do (most renowned Professor) I do now willingly perform, and present unto you the first Fruits of my Practice of Physick or rather the fruit of your own Learning, which none can so justly Challenge, as he that took so much Care to manure the same. My poor Observations do

do returne unto you as unto their Spring, which it is your pleasure to joyn with the Observations and experiments of your self, and other excellent Worthies of our Art. They are yours, because I am so; to you they are due, because you are the first Author of them, under whose conduct I first set sail in the Sea of Physick: by whose Guidance I have luckily run the Apolinary Race, and then quietly rested my self in the quiet Station of your Family, in which as you have sowed in me the first seeds of practical Physick both publickly and privately, and cherished the same, so do you now make it your glory, when they are coming abroad into the World, to defend them from the danger of Calumny whereunto they are liable; for seeing so many difficulties do for the most part accompany, and so great dangers follow our first endeavours, I should never have dared to have let these first fruits of my Practice to see the light, were they not to come forth under the Happy Conduct of your Name, and had I not your self both for Captain and Companion in my Journey. Whom because the Cure of Diseases had made Famous, use has made expert, and experience has made you happy and fortunate in Practice; whom Diseases fear as their Enemy, Men Love as the recoverer of their Health, and Death hates as his Conqueror. It shall never grieve me to march into the Field under so great a Commander, who has evermore been Friendly unto me both in Publick and Private occasions, and in the midst of innumerable assaults of adverse fortune, has born up and cheered my mind with his dayly converse: who being exceedingly careful of my Learning, has continually watered my Wits with the fruitful streams of his Doctrine, and opened a way for greater things, which peradventure riper age, and more advantageous opportunity may hereafter bring forth.

If Fates give Leave, If Phœbus when I pray
To bless my Studies, He Amen shall say.

In the mean time Fare you well, and long may you shine like a new Apollo upon the Famous University, and whole France. Many and happy years may you live; which is the ardent prayer of him, who is your most devoted.

Dated the 6. of the
Ides of October,
Anno 1645.

SIMEON JACQZ,
Dr. of Physick
of Montpelier.

The 394 Observation or History of Famous and Rare Cures, &c.

A Deadly Frigidity of the Tongue.

A Young man of Montpelier, of twenty years old, by name Ludovicus de Camp, was in the moneth of June, 1643. troubled with a long Loosness, and was at last brought into the City Hospital, being by the Governours of the City committed to my Care. After divers Remedies administred, convenient for one in his condition for fifteen days together, and all in vain, the Disease continued in the same condition as at first, with very great weakness, yet his appetite was very good, and his thirst not very great. And in this condition he lived six or seven days longer, after which, I found his Tongue moist enough, and having its Natural colour, but it felt cold, without any coldness of his Hands or Feet; so that nothing seeming to trouble him but his Loosness, with which he was much weakned, yet I thought he would die in a short time, yet he lived four days with an actual coldness of his Tongue.

Another of the same Age, in the same Hospital had many Ulcers in both his Legs, and a Fistulous Ulcer in his left Groin, and being suddenly fallen away in his flesh he wasted to the grave. Howbeit, he continued in that condition two Moneths or more, growing still leaner and leaner, and at last his Tongue became actually cold as in the former example, which calling to mind, I foretold that he would die within a short time, as it fell out twenty four hours after.

Another named John Adventurier, fifteen years old, in the same Hospital, was sick of a bloody flux: and within six days space his flesh was wasted away, his Tongue being actually cold, without any great coldness of his Hands or Feet, and the next day he died. From which

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examples

examples we may gather, that coldness of the Tongue is to be reckoned among the tokens of Death.

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The Falling-sickness joyned with a Dead Palsie.

A Girl named *Catharine Bognole*, ten years of Age, of a Flegmatick Constitution, and of a broad well set body, was troubled five or six Moneths with the Falling-sickness, by Fits coming almost every day, yea sometimes twice or thrice in a day; to which was added a privation of motion and sense in her right Arm. This Girl being brought into our Hospital in the Moneth of *December, 1643*. I prescribed her in the first place, a potion purging flegm with a Cephalick Decoction, which after some days was repeated, and she used between whiles preparatives and specifick Medicaments, but without profit. At length I gave her about two drams of *Montagnana* his Opiate four or five days together, which being over, she began to stir her fingers, and soon after her whole Arm, and she was not frequently taken with fits of the Falling-sickness; so that within twenty days (she taking every morning of the foresaid Opiate) was perfectly cured of both Diseases. The Opiate was made as followeth.

Take Roots of Male Peony, *Stacados*, *Costus*, of each ten drams: *Agarick*, five ounces: *Pellitory of Spain*, *Caraway-seeds*, *Annis-seed*, *Assa Fetida*, and *Aristolochia Rotunda*, of each two drams and a half; Juyc of *Squils* and choice Honey, of each one pound and two ounces: Let the Juyc of *Squils* and the Honey boyl together over a gentle fire, unto a good consistence, then add the powders, and make all into an Eleuary. Let the dose be two drams every morning three hours before Meat.

The 396 Observation or History of Famous and Rare Cures, &c.

Fits of the Mother.

A Woman of *Montpelier*, threescore years old, had Fits of the Mother twenty four hours, with pain of her Head and Belly, especially over against her Spleen. She was full of Unquietness, could not sleep, and was very thirsty. And because she would admit neither of Clysters nor Cupping-Glasses, she was content only with a Plaister of *Galbanum* applied to her Navil. I advised her when she was athirst to drink a Cup of Water tempered with Vinegar, which she did three or four times, and within a few hours she recovered and was free from her Fits. Another Woman I freed from Fits of the Mother, only with a Clyster of Vinegar and Water, which she kept two hours.

The 397 Observation or History of Famous and Rares Cures, &c.

Gouty and Whore-Pockie Pains.

A Young man of twenty five years of Age, named *Matthew Farlet*, for two Moneths was troubled with most cruel pains of his Joynts, especially in his Knee, with a swelling which had the same colour with the other parts, and felt no pain when it was touched, but had a deep inward pain; the like he had in his Shoulders, Arms, Hands and Fingers, which were more sharp in the nights, tormenting the Patient and forcing him to keep his bed. After I had Phylicked his whole body by Apozems and Blood-letting often repeated, he felt some ease, and especially by the use of *Jallap*, so that he was now able to go. Yet there remained a pain (though not so grievous) in his Knee, Arms and Shoulder-blades, which came still in the night: whereupon I conjectured that it was a Pocky pain; the rather because two years before he had been troubled with the *Gonorrhæa*: which being cured sooner than

then was sitting, he said he felt no pain from that time. He being brought at last unto the Hospital, because he was a Forreigner; I gave him for seven years together *Mercurius Dulcis* with Conserve of Roses, the first day one scruple; the second, third and fourth, half a dram; the fifth, sixth and seventh, two scruples. It caused a light Salivation, an hour or two after the taking, which continued till dinner time; it gave him two stools a day, without any griping or sickness of Stomach. The *Mercurius Dulcis* was six times sublimed. On the eighth day he took a powder of *Senna*, Cream of *Tartar* and *Jallap*, which purged him very well. And so his pain went quite away.

The 398 Observation or History of Famous and Rare Cures, &c.

A Swelling and pain in the Knee.

ANother young Man, twenty two years old, in the same Hospital of *Montpelier*, had a swelling in his left Knee, with a pain which came by Fits, which had succeeded a Rheumatism, and had vexed him four or five Moneths. After universal Evacuations he took in the same time *Mercurius Dulcis* according to the Method aforesaid, for seven days, with a light Salivation every morning after the taking the Powder. But upon the seventh day he was extreamly fluxed, and the Roof of his Mouth and Jaws were Ulcerated, his Teeth loose and ready to drop out of his Head; flegm continually flowed out of his Mouth, which stunk so that himself could not endure it, and he slept neither night nor day. After four days time, I thought it time to stop the flux. Wherefore I prescribed him a Laxative Ptisan, to be taken twice a day for two days together, and so the Humors changed their course downward, the swelling went away, the pain ceased, and the Patient began to go without any help, and without any more Physick, after fifteen days, he returned safe and sound into his own Country.

The 399 Observation or History of Famous and Rare Cures, &c.

A Dropsie.

ACountry fellow thirty years old having had the Dropsie three Moneths, was brought about the end of *January*, 1644. into the Hospital; and a few days after died. His body being opened, an huge Quantity of Water came away; we found his Liver in a very good condition: but his Spleen so corrupted that the whole substance thereof was like melted Pitch. Whence it is apparent that every sort of Dropsie is not always caused by extream weakness or distemper of the Liver.

The 400 Observation or History of Famous and Rare Cures, &c.

Immoderate Flux of the Courses.

ACountry Woman, thirty years of Age, in the Moneth of *June*, 1644. was troubled with Immoderate flux of her Courses, and she was exceedingly weakned by reason of continual loss of blood for divers days together, so that she gave her self over for a lost Woman. It being my hap to be rambling in the Country as I recreated my self with Hunting, because Medicines were not there to be had, and her purse could not reach to the price of them, I gave her presently, about six in the evening five or six ounces of the Juyce of Nettles, and I ordered to lay upon her belly below her Navil a Cataplasme or Pultis made with the same Juyce and Wheat-flower. About Midnight I gave order to repeat both the Medicines, which being done, the Woman was better in the morning, her flux of blood stopped, and by little and little she grew perfectly well without the help of any other Remedy.

The 401 Observation or History of Famous and Rare Cures, &c.

The Whites.

A Costenſian Woman forty years old, was troubled ſeven Moneths with the Whites being of a wheyiſh Nature, whom I cured within five weeks, by giving her every eight days eight grains of Roſin of Jallap; the Serofities being purged away, upon which the Diſeaſe depended. And then I took away all occaſion of Relapſe, by this following Opiate.

Take old Conſerve of Roſes, two ounces; Conſerve of Roman Wormwood one ounce. The Powders Trionſantal, and Aromaticum Roſatum, of each one dram: Red Coral prepared, half a dram; Old Venice Treacle, two drams; with Syrup of dried Roſes, make all into an Electuary. Of this ſhe took the quantity of an Hazel Nut every night, when ſhe lay down to ſleep for a long time together.

The 402 Observation or History of Famous and Rare Cures, &c.

Hard Swelling on the Back of the Hand.

A Coſtenſian Maiden of twenty years old, had a Scirrhouſ Tumor on the back of her Hand, which was diſcuſſed by my advice; for a leaden plate ſmeared with Quick-ſilver, was laid upon the ſwelling and worn there eight days, and ſo the Tumor went away and came no more.

The 403 Observation or History of Famous and Rare Cures, &c.

A Beginning Dropſie.

A Woman twenty five years old, named *Damiana Gulon*, who was my Neece, was troubled two years with ſuppreſſion of her Courſes, by reaſon of an heedleſs Courſe of Life, and becauſe of Errors committed in her Childing, (for ſhe had come too ſoon into the cold Air,) with want of ſleep, want of Appetite, fluggiſhneſs and loathneſs to ſtir, difficulty of Breathing, ſwelling and hardneſs of the Spleen, and falling away of her whole Body; ſo that it ſeemed ſhe would ſoon fall into a Conſumption or Dropſie. She had uſed divers Medicines for almoſt an whole year, preſcribed by moſt ſkilful Phyſitians according to the Rules of Art. But her Diſeaſe getting head, and all Remedies being uſed in vain, her Legs began to ſwell, and alſo her belly, though in much meaſure puffed up with Wind. All the Symptoms grew dayly worſe and worſe, and at laſt the Region of her Stomach was raiſed up into a Transparent ſwelling. Being thus afflicted and caſt down, ſhe came to me, and with the following Medicines ſhe was cured in the Moneth of September, 1644.

Fiſt of all ſhe took four days together a Laxative Piſan of the Infuſion of two drams of *Senna*, with half a dram of *Sal Prunella*, and fifteen drops of Oyl of Sulphur *per Campanam*. Then ſhe fell upon the uſe of theſe following broths.

Sparagus Roots, *Grass* and *Cichory* Roots, of each half an ounce; *China* Roots cut in ſlices, one dram. Leaves of *Agrimony*, *Ceterach*, *Bugloſs* and *Cichory*, of each half a handful; *Crystall of Tartar*, two ſcruples: Boyl all with a quarter of an old Cock. In the ſtrained broth diſſolve, Salt of *Wormwood* and of *Tamarisk*, of each one ſcruple. Sugar of Roſes, two drams: Let her take of this broth every morning three hours before meat, for twelve days together.

Her broths being ended ſhe took again the Laxative Piſan aforeſaid for three days. And then ſhe uſed this following Electuary, whoſe wonderful Effects, I have oftentimes beheld.

Take Conſerve of the Flowers of *Tamarisk* and *Maiden-Hair*, of each an ounce and an half. Conſerve

Conserve of Elicampane Roots, six drams : Steel prepared with Sulphur, an ounce ; Salt of Tamarisk one dram : Spirit of Sulphur per Campanam ten grains : With Syrup of preserved Citron peels : Make of all an Eleâuary, of which let her take every morning two or three drams, for fifteen or twenty days together, and walk upon it.

She drank Water of the Infusion of Steel, with a little red Wine mingled therewith.

She had two Issues made at the beginning in both her Legs, and they were always kept open till she was perfectly cured. She presently began to mend, after the use of the foresaid Medicaments ; for her belly fell by little and little, she gained her Stomach and the fresh colour of her Face, with her natural sleep ; and the hardness of her left side was softened, and she recovered the benefit of her Courses.

The 404 Observation or History of Famous and Rare Cures, &c.

Worms.

A Boy four years old much subject to Worms in the Month of September, 1644. was troubled with want of Appetite, Stomach-sickness, itching of his Nose, thirst, big-belly, with gripings in his Guts and a Fever : so that it was apparent, all things considered, that he had Worms. I gave him twelve grains of *Mercurius Dulcis*, six times sublimated, with five grains of *Diagridium*. Two hours after he had taken the Medicine, he voided about twenty Worms in a Knot, by stool, and all the foresaid Symptoms departed, and the Boy became perfectly well.

The 405 Observation or History of Famous and Rare Cures, &c.

Intolerable Head-ach.

A Certain Man, fifty years of Age, lean, and of a thin texture, exceeding prone to Anger, was troubled about two years with an extream sharp pain of his Head, on the right side thereof, from the top of his Head to his Temple on the same side, which pain as oft as it returned, (which was three or four times a year,) it forced him to keep his bed, and did so torment him that it brought him almost to desperation: but without any Fever, Thirst, or Inflammation, only there was great Pulsation of the Artery of that Temple. Being called to him in the Month of September, Anno 1644. I ordered him to be let blood, giving him first a Clyster, to cleanse away the Impurities of the first Region. Then I gave him a Medicine to purge Choller, which was repeated after a few days, and he took in the mean space Juleps to refrigerate and prepare the Chollerick Humor. Afterward repelling Medicaments and Vinegar of Roses were applied to his Head, and the revulsions were made with Cupping-Glasses, with and without Scarrification, and his extream parts were rubbed. He was again let blood, and yet his pain went not away. It returned in the beginning of the Spring, Anno 1645. I gave him first an Emollient cooling Clyster, then a Medicine purging Choller, and so I came to open the Artery in his temple, which was performed by reason of the urgency of his pain, and there came five ounces of blood leaping out. And then applying Lint wet in cold Water and binding it on, as is the practice in ordinary blood-letting, his pain ceased within half an hour, which formerly was wont to torment him many days together, and it returned no more from that time forward.

There might have been applied for more sureties sake, *Galens* Plaister of Frankincense, Mastick, Bole-Armenick, and the Wool of an Hare with the white of an Egg, and a good Ligature, but we found no need thereof.

The 406 Observation or History of Famous and Rare Cures, &c.

A stubborn pain of the Head.

A Woman of *Costa* fifty years old, too much noted and over Famous, was troubled in the Moneth of *October*, the year 1644, with difficulty of breathing, and a most cruel pain of her Head, which came and went by Fits, and troubled her most in the night, and seeing that it would not be removed by purging and strengthening Medicaments applied a Moneth together, I suspected that it was a Pocky pain. And this suspicion of mine was strengthened by the weariness which she felt, which came of it self without labour, by her lazyness and loathness to stir, and because sometimes she was thick of hearing, and had a Ring in her Ears. The digestion of her Stomach and Liver was weakned, she was pained and tormented very much in the former part of both her Legs, especially in the night: also besides the course of life which she had formerly lived, the year before she had often used a Sudorifick Diet, Frictions with Mercurial Oyntments, and Mercurial Pills. Wherefore the season of the year being extream cold, and the condition of the Patient would not bear the use of Antivenereal Medicaments; I bethought my self how to remove the pain of her Head, which because it came and went, I conceived it was caused by the malignant quality of the Quick-silver assailing and molesting the Brain, and I was not mistaken in my conjecture, for a piece of Gold being wrapped up and thrust into each Nostril and keep there some hours, and then taken out, they were both coloured white at the ends with the Quick-silver, and being put a little into the fire they recovered their former colour. Another piece of Gold which she held four or five hours in her mouth, was taken out white, and being put in hot coals, the Quick-silver vaped away. And with this Remedy often repeated, that most cruel pain of her Head was taken away wholly, howbeit a little heaviness remained. And the Woman seemed to be better many days together, so that she rose out of her bed, could eat her meat well, and professed that she was cured; the shortness of her breath still remaining, and the pain of her Legs always returning in the nights. But fifteen days after, she was taken with a continual Feaver and died.

The 407 Observation or History of Famous and Rare Cures, &c.

A Bastard Tertian.

A Certain Man of *Costa*, twenty seven years of Age, of an excellent Habit and complexion of Body, about the beginning of *September*, 1644, was taken with a Bastard Tertian, which having continued a whole Moneth, and Medicines prescribed by another Physitian according to the Rules of Art, being used in vain: he took by my advice a vomit of one dram of Salt of Vitriol dissolved in Water, which caused him to vomit three or four times, and his Ague returned no more.

The 408 Observation or History of Famous and Rare Cures, &c.

Tooth-ach.

IN the beginning of *February*, 1645, I was taken with a frequent and troublesome spitting, with most cruel pain of my Teeth, which at length brought a Feaver, which after I had taken a Clyster, and was let blood, it went away, only my Tooth-ach remained and a continual spawling of thin Wheyish matter: the excretion of which continuing, there arose wandring pains in divers parts of my body, holding sometimes one, and then another part, which I judging to proceed from Melancholick serosity, I took eight grains of Rozin of Jallap, with which being very well and gently purged, I voided in great Quantity the superfluous serosity,

in seven stools, and the day following I found my self free from the foresaid pains and troublesome spittings. But in the Moneth of *April*, the pain of my Teeth returned with the spitting, which went away within twenty four hours, upon my taking the foresaid Medicine.

The 409 Observation or History of Famous and Rare Cures, &c.

The Whores Pox.

IN the Moneth of *May*, 1645. two Girls, the eldest of which was scarce five years old, the younger three years old, were troubled with the Lechers Pox, for five Moneths together, which they had gotten by Contagion; they had many Ulcers in their Mouths and Privities, with pustules and a filthy Scab all their bodies over. A skilful Chyrurgeon had given them a Decoction of *Guaiaicum* for a Moneth together, but in vain. I being sent for, cured the said Girls within the space of fifteen days with white Mercury Precipitate, giving every day to the elder six grains, to the younger four, yet sometimes augmenting both the doses, according to the operation, which was such, that each of them had three or four stools a day. They never vomited, neither were fluxed. But they persisted all the while in the use of their Diet-drink of *Lignum Guaiacum*.

The 410 Observation or History of Famous and Rare Cures, &c.

Warts upon the Hands.

A Man had many Warts upon the fingers of his Hands, which he cured by my advice, by anointing them four or five several times with the Milk of a Fig-tree. The same Cure was performed, and that much more effectually upon a certain Country-man, by smearing the Warts with Spirit of Sulphur per Campanam divers days together, and by applying the same like a Fomentation.

The 411 Observation or History of Famous and Rare Cures, &c.

A bruised Wound.

A Certain Captain lifting Souldiers in the City for Msr. *de Ville*, in the beginning of *May*, 1645. fell from the top of a pair of Stairs upon an Hoghead that stood at the bottom, and was bruised and wounded in his right side upon his short Ribs; so that much blood came away, and he was perpetually tormented with a most cruel pain in the bruised part, so that he could hardly move himself, or speak, breath or cough, but he was forced to cry out with pain. I being called to him, caused a Vein presently to be opened on the Arm on the same side, and a Plaster of Cummin-seed to be applied to the parts pained: which having been on twelve hours, and once renewed in that time, the pain was much lessened, the black and blew colour gone, he breathed more freely, and the day following he began to rise out of his Bed, and so after one day more, the pain went quite away.

The 412 Observation or History of Famous and Rare Cures, &c.

The Pestilence.

IN the time of the Plague, which in the years 1628. and 1629. did rage in a manner all *France* over; a man of *Costa* conceiving himself to be taken with the Plague, because of a sudden he was seized with heaviness and pain of his Head, and party-coloured vomitings, presently applied

plied Cantharides with Leven and Vinegar behind his Ears, and to the other Emunctories, and kept his bed. After twenty four hours he had a rising behind his Ear, out of which continually flowed a sharp serous Humor, and the like by the other Emunctories; whereupon the Disease was less grievous and dangerous, and he recovered some days after, and never had it again, though he convert daily with such as had the Plague, and ministred unto them. The same Mans Wife a while after finding her self ill, was cured in the same manner; which Remedy they had learnt of others, who had practised it themselves with good success.

The same year, the Wife of *N. Micha* of *Costa*, conceiving that her eldest Daughter about twelve years of Age was taken with the Plague; for being an ingenious Woman, she conjectured so much, by her horrible look, her Fever, Heat, Head-ach and Stomach-sickness: she thrust a Feather smeared with Oyl down her Throat, which made her vomit first wheyish Liquor, then a yellow Excrement, and at last green as Leeks in a great quantity, like half boyled Herbs. Then she laid her in the bed, gave her a draught of broth, and disposed her to rest. Some hours after the Girl arose cheerful, and was troubled no more with any Pestilential Symptom though she often convert with such as had the Plague. Eight days after, her two younger Brothers, and her little Sister, were taken with the same, yea, and more grievous Symptoms, whom their Mother in the same manner procuring to vomit, which brought up the like Humors, saved from the Suburbs of Death.

The 413 Observation or History of Famous and Rare Cures, &c.

The Kings-Evil.

OUR Neighbour *James Gorrez* his Girl, four years old, had Swellings of the Kings-Evil about her Neck and Ears, very high. Some body advised her Parents to let her grow Loufie, till the Lice should make all her Head sore and run; by which means the Morbifick matter, viz. a flegmatick Humor, was conveniently purged out some Moneths together in great quantity, and so she was at last cured of her Swellings, without any other Medicine.

The 414 Observation or History of Famous and Rare Cures, &c.

Dropfie.

A Woman thirty years old, troubled with the Dropfie *Anasarca*, by the advice of another Woman, and of an Antient Apothecary, abstained from all manner of drink almost an whole year; and so at length she was cured, without any more to do. By whose example, a Country man her Neighbour, troubled with the same Disease, was cured after the same manner in the space of four Moneths. Another Hydropick person was cured by an Apothecary, who applied many Vesicatories to divers parts of his Body.

The 415 Observation or History of Famous and Rare Cures, &c.

Fits of the Mother.

THE Renowned Lady, *Madam de Popiam* in *Occitania*, being much subject to Fits of the Mother, used divers Medicines for many years together, but all in vain. At last, by the use of the following Powder, she was freed from them for fifteen years together. She took about one dram thereof in Wine, or in a Wafer Cake, twice or thrice in a week, or oftner, if the Fits did much trouble her. She used this Powder likewise against all Poysons, the Plague, Agues, and want of Appetite, with most happy success, as I have often seen. The Powder is thus made.

Take Roots of *Gentian*, *White Diclamnus*, *Tormentil*, *Pellitory of Spain*, *Rhaponticum*, *Bistort*,

Bistort, round Birthwort, white Thistle, Bay-berries, Angelica, Masterwort, Coriander seeds prepared, Annis seeds, Juniper berries, Mastich, Bole Armenick, Terra Sigillata, of each three ounces and an half. Oriental Saffron two drams and an half. Mix them, and make of all a very fine Powder.

Observations Communicated by M^r. Samuel Formius a most Experienced Chyrurgeon of Montpelier, having Practised the Art Fifty Years.

The 416 Observation or History of Famous and Rare Cures, &c.

The Bleeding of a Wound.

IN the year, 1593. a certain Souldier having received a Wound in his Arm, with which his *Radius* and *Cubitus* were cut cross-ways, so great effusion of blood happened, that after divers astringent things had been applied, and the use of Causticks and Escharoticks, the blood would notwithstanding flow by fits; so that the Physitians and Chyrurgeons had thoughts to cut his Arm quite off. But I, to whom the Cure was committed, rouled a Linnen Cloth into the form of a Cylinder, or Garden Rowling stone, four fingers breadth in length, and as thick as a mans Thumb, which I thrust perpendicularly down-right into the Wound, filling the by-spaces with little bolsters; and because the end of my Rowl came an Inch above the surface of his Arm, I laid four bolsters which came as high as the Rowl, and kept it fast, and upon the Rowl I laid a fifth bolster four square, and at last swathed all fast. And from that time the blood came no more; now I did not open the wound for four or five days, untill the flesh which was bred within, might stop the Orifice of the Veins.

The 417 Observation or History of Famous and Rare Cures, &c.

The Bleeding of a wounded Artery cured by binding.

A Young man of Montpelier, named N. Peyre, had received a Wound in a single Combat, in the fore part of his Arm, near his Arm-pit, by which the Axillary Vein and Artery were cut; whence so great bleeding arose, that I judged it could no ways be stopped with astringents, I presently betook my self to make a Ligature, which I happily performed after this manner. I thrust a crooked Needle into the sound flesh above the Wound, so that it went unto the bone, and compassed the foresaid Vein and Artery, beginning at the inferior part where the *Musculus Extensor Longus* was transfixed, and the Needle where it came out pierced through the *Musculus Biceps*; in the Eye of the Needle there was a four-fold thred, with which the Vein and Artery were compassed within; then having laid a Rowl or Cylinder made of Linnen Cloth upon the Skin, between the two ends of the Thred, I tied the Thred close upon the Cylinder or Rowl, which I did to keep the Skin and Vessels from being broken or cut asunder by the Thred; and thus the Vein and Artery aforesaid were so tied, that the blood issued no more. After ten or eleven days, when the Wound seemed to be closed up, I cut off the Thred, and the Patient was cured. In the mean space, after the foresaid Ligature was made, to assuage the pain caused thereby, and to cure the Inflammation which followed the pain, he was frequently blooded, and Vinegar and Rose-water were applied to the part, and other Medicines to assuage pain, and stop the Inflammation.

The 418 Observation or History of Famous and Rare Cures, &c.

An intollerable pain of the Os Sacrum.

A Certain poor Cöbler about forty years old, had a most cruel pain in the lower part of the *Os Sacrum*, for two Moneths together, which was so vehement, that the man fell mad upon it. Divers Remedies universal and particular, were used in vain. At last, being sent for, I applied two Cupping-Glasses, one to the part pained, the other a little lower, *viz.* upon his buttock, with deep Scarrifications, out of which much blood came, the which they wiped off, I set the Cups on again upon the Scarrified places, and a good quantity of blood came away again. The man seemed free from his pain; nevertheless the day following, I applied a large Caustick to the pained place above the Scarrifications, and kept it on four and twenty hours; so that there was a deep *Eschara* which reached to the bone. Which being come away, the Ulcer was healed up, and the Patient freed from his great Misery.

The 419 Observation or History of Famous and Rare Cures, &c.

The Dropsie.

THE forefaid Cöbler, two years after the forefaid Cure fell into the Dropsie *Ascites*, which being troubled five or six Moneths together, so that his Navil stuck out as big as an Hens Egg: an Apertion was made in the middle of his swollen Navil, and the Water drawn out by little and little, a Pipe made of Tinn being put into the hole, in the end whereof there was a broad plate, that it might not sink into his belly, having holes bored through, that it might be tied. Afterwards it was stopped up, and so he was cured.

In this kind of Operation observe, that Hydropical Persons must not be opened, unless their Navil start out, and so nature seem to effect that way to discharge her self. For all that are opened, their Navils not swelling as aforesaid, die upon it. Now this starting of the Navil may be procured by Art, applying frequently upon the same, Cupping-Glasses without Scarrification, but with much flame; also by applying Emollient and Attractive Fomentations, which being used about the space of eight days, will raise the Navil into a swelling, upon which the Orifice may be made.

The 420 Observation or History of Famous and Rare Cures, &c.

Another Dropsie.

A Certain poor Woman, twenty five years old, was troubled with the Dropsie. An old Woman advised her to take the bones of any Beast which had lain drying in the Sun, and beat them to Powder, and take a dram thereof every day for a Moneth in white Wine mingled with the juyce of Parsley. The juyce was thus extracted. She took an handful of Parsley, and wrapped it in a Linnen Cloth, and roasted it under the hot Ashes, and then she beat it in a Marble Mortar, powring on by little and little as much white Wine as would suffice. She pressed out the juyce and Wine together to the quantity of two or three ounces, in which she dissolved the powdered bones, and drank it every morning for a Moneth, at the end of which she was perfectly cured.

The 421 Observation or History of Famous and Rare Cures, &c.

Water in a Childs Head.

AN Infant newly born was troubled with the *Hydrocephalos* or Water-Head, the whole Head being Swoln with a great dilatation of the futures. I cured this Disease without any Physick or other Remedy, saving *Guido* his Swathe, made in form of a Cucupha or spice-cap, wherewith the whole Head of the Infant was covered, the two ends being tied up into knots. Every day the Swathe was renewed, and so within fifteen or twenty days the Tumor wholly vanished.

The 422 Observation or History of Famous and Rare Cures, &c.

The Dropsie.

I Have been told by credible persons, that two Hydropical Women were cured by cutting the Nailles of their toes so close, that some part of the flesh was cut away with them, and some blood came away, whereupon followed a dropping of wheyish Excrements for many days together, and so by little and little the Hydropical Humor was drawn forth.

The 423 Observation or History of Famous and Rare Cures, &c.

A Certain Wound of the Head with Contusion.

A Certain Woman by the fall of a beam upon the top of her Head, received a grievous Wound with contusion, whereupon there appeared a Bag in the nether part upon the *Os Parietal* four fingers breadth in greatness, I would have opened the said bag or Imposthume in the sloping part thereof, which the Patient obstinately refused. Wherefore I put the foresaid swath or cap upon the Imposthume with a thick Emplaistred bolster that it might stick, whereupon the matter was pressed unto the Wound, which was on the top of her Head, and afterward came to Glutination, whereupon a perfect Cure happily followed.

The 424 Observation or History of Famous and Rare Cures, &c.

An Imposthume upon the Breast-bone.

A Certain Student of Physick had one of these red hot swellings, called Phlegmone, of a very great bigness, upon his Breast-bone, as big as the palm of a mans hand, which coming to suppurate, through the unskilfulness of another Chyrurgeon the Imposthume was opened in the upper part. I being called, would have opened it again in the nether part, which the Patient would by no means hear of; wherefore I applied a thick implaistered bolster and swathed it fast on, by which means the matter was all forced to the Part opened and so expelled; and by this means the Wound was healed.

The 425 Observation or History of Famous and Rare Cures, &c.

A Hollow winding Ulcer.

A Youth eighteen years old had four Moneths an hollow winding Ulcer in his right Thigh between his Groin and huckle; the Orifice was uppermost, and the Cavity went down-

ward the middle of his thigh. He would not suffer it to be opened beneath, which seemed necessary to be done. I being compelled thereunto, after detergent injections oft times repeated, applied a very thick bolster Emplaistered that it might stick close; and swathing it in a spiral wreathed fashion, from the nether part to the upper, which was kept open, the said winding hollow Ulcer was healed up in a Moneths space.

The 426 Observation or History of Famous and Rare Cures, &c.

The Sleeping Disease in Children.

THE Daughter of Msr. *Ludovicus* a Citizen of *Montpelier*, eight years old, was taken with the Coma or sleepy Evil, which *Avicen* termes *Subeth*, with frequent Convulsions, to whom the Physitians had given many Medicines and applied divers Remedies, viz. Clysters, Frictions, Cupping-Glasses, Veficatories, sneezing powder, &c. I gave her one dram of white Vitriol in broth, whereupon she vomited, and was presently cured,

the Son of a certain Gardener five or six years old, was taken with the same Disease, to whom I gave half an ounce of the *Aqua Benedicte Rulandi*, which purged him up and down, and cured him.

The Daughter of Msr. *de la Croix*, a Merchant, being a year old and troubled with the same Disease, without Convulsion Fits, took of juyce of Onions and ordinary Oyl, of each one spoonful mingled together, wherewith she vomited, and was well.

The Daughter of Msr. *Morand* a Goldsmith, four years old, troubled with the same Disease, was cured with the same Medicine.

The 427 Observation or History of Famous and Rare Cures, &c.

Tertian Ague and Worms.

A Citizen of *Montpelier* thirty years old, troubled with a Tertian Ague, took an ounce of *Aqua Benedicte*, and was cured of his Ague, and with the working of the Medicine he voided a broad Worm seven Foot long.

The 328 Observation or History of Famous and Rares Cures, &c.

A Leaden Bullet shot into the Heel.

A Certain Souldier was wounded in his Leg, which wound descended downwards as far as his heel, into the substance whereof the bullet was fastened, and there it stuck. The Ulcer was not cured, but became fistulous and continued in that manner seven years together. At last he committed himself to my care, I putting a Probe into the Ulcer felt the bullet in the very cavity of the Bone. Then measuring the place with my Probe, which went into the Ulcer six fingers deep, over against the place where the bullet lay, applied a great Caustick, which because it did pierce so far as the bone, I applyed another which brought me to the heel-bone, which being barred, I opened his heel with my Trepan, where I found the bullet secretly enclosed, and drew it out, and in a short while after the Ulcer was healed up.

The 429 Observation or History of Famous and Rare Cures, &c.

The Skull depressed by a Wound.

THE Daughter of M^r. Strinc, Citizen of Montpelier, eighteen Moneths old, fell down the staires, & hitting her head against the stones, her skull was bowed in between the Sagital and Coronal suture, the quantity of half a Nut. Being called to see her, I cut off her hair and applied a Cupping-Glass without scarrification to the depressed part, afterwards applied it again with scarrification. Afterwards I applied a Cataplasim made of bran Bread, Wine, and Roses, which I repeated twice a day, five or six days together, reiterating the application of my Cupping-Glass with scarrification before every application of the Cataplasim, and at last for four or five days applying the Cataplasim alone without scarrification. The Tumor raised by the Cupping-Glass was discussed, and the depression or dent was taken away, so that the bone returned to its natural place and convexity.

The 430 Observation or History of Famous and Rare Cures, &c.

Ruptures.

I Have cured many bursten men and women, in some of whom the Gut had been fallen without the *Peritoneum* for three or four days together: so that they were fallen into the black Passion commonly called *Miserere mei*: which Cure I performed after this manner. I placed a Table or Plank of sufficient breadth by the Patients bed in such manner, that one end leaned upon the side a of the Bed, and the other end rested upon the floore. Then I placed the sick person upon the said Plank with Pillows under him or her, in such a Posture that the Head of the Patient lies next the ground, and the Feet next the bed side. Then I fomented the part along with cloths four times double steeped in cold water, in the mean while gently touching the same with my fingers, and having continued this Fomentation, for half an hour, I applied a many times doubled cloth shaped like a Triangle wet in cold water upon the place, making a containing Ligature thereupon; and thus within a few hours for the most part, the Gut is of it self restored to its place. But if after the first Fomentation and the application of the Cloth thereupon the Gut be not restored to its place, Reiterate the same operation twice in a day, and upon the second or third Repetition the Disease is cured.

In some Patients being called late, when the Gut was inflamed, so that in regard of its swelling, it could not return back again by the straight hole in the *Peritoneum*, I have by widening the said hole by incision, saved three Patients from a speedy Death. Which operation I did thus performe. First I placed the Patient as aforesaid, & withall I bound him hand & foot that he might not be able to stir while I am in my work. Then I drew a transverse line with Ink above the Line of the strangling of the Gut where the Rupture of the *Peritoneum* is. Then I draw another Line Perpendicularly cutting the foresaid Line at the place of the strangulation and in the middest thereof: then I drew the skin too on both sides with my two fingers in a transverse Line, & I cut it with my Incision Knife Perpendicularly, so that the length of the Incision was as much as two fingers breadth. Then I lift up the muscles which cover the Rupture, by little and little with certain hooks, and separated them with a Pen-knife untill the Production of the *Peritoneum* lie open to sight. And then it is lifted up with an hook, and cut with the foresaid pen-knife, and so the Gut is put into its place again. But if the Gut be so swelled with Wind or inflammation, that it cannot be thrust back into the Abdomen, the Apertion already made may be enlarged, by putting into the wound such a fashioned Catheter as they use to cut the stone upon, and by Clipping the Abdomen thereupon with Scissors, either in the upper or lower part as the Chyrurgeon shall think most convenient.

In this operation I noted one thing well worth observation in a certain Woman whom I cured by the means aforesaid, viz. that her belly being opened, the Gut which had fallen out of the

Peritoneum

Peritonæum thirteen years together, causing a perpetual Tumor in her Groin, appeared covered with a fleshy kind of swathband, which compassed the said Gut, and continually growing in the inferior part by the Rupture, did so straiten the Gut in that part, that the Excrements could not find passage through the same, whereupon the Woman fell into the Iliack passion, which was the cause that I took her in Hand.

The 431 Observation or History of Famous and Rare Cures, &c.

The Tumor Ganglion upon the Face.

A Certain young Woman had one of those Tumors called *Ganglion* in her Face, as big as a Cherry, beneath her Eye, upon the Bone called *Zygoma*; which was Discust within a Moneth, by applying thereunto a plate of Lead smeared with Quick-silver and stuck upon a Plaister that it might be kept on. The Plate with the Plaister were laid upon the Tumor, and a bolster thereupon, and then I tied them to with such a swath-band as *Galen* calls *Semiphallera*.

The 432 Observation or History of Famous and Rare Cures, &c.

A Tumor called Anchilops.

A Woman forty years of Age had a Tumor in the Larger corner of her Eye, which Tumor is called *Anchilops*: I took it away, by applying a small Cautick, and the coar being fallen away, I cured the Ulcer with a little red Precipitate and burnt Allum, two parts of Precipitate I mixed with a third part of burnt Allum, which I made up with a little *Unguentum Aureum*, and applied it to the Ulcer till there came a new Eschar as big as a Vetch, which being fallen away, the Bone appeared bare, which appearing untainted, I presently took a Course to fill up the Ulcer with flesh, laying on old worn rags and changing them twice a day, and so the Disease was perfectly cured.

The 433 Observation or History of Famous and Rare Cures, &c.

A deadly Costiveness.

A Certain Taylor for a Moneth or longer had never gone to stool, and having took many Clysters and purging potions in vain, at last he died. His body being opened, all his Guts were found stuffed with Dung partly, and partly with meat and drink like puddings. The cause whereof was judged to be, that the Guts had wholly lost their expulsive faculty.

The 434 Observation or History of Famous and Rare Cures, &c.

A fracture of the skull in the left temple.

A Certain Woman was wounded in her left Temple with a stone, who presently upon the Wound received, came into the Hands of a young Chirurgeon, who being terrified with the grievousness of the Wound, called me to his assistance. I perceiving there was a fracture, and judging it necessary to use my Trepan, I confidently made a Cross-fashion'd incision upon the *Crotaphita*, by which means the bone was discovered, and the fracture found, in which a bit of the Skull as big as an Almond-shell wholly separated, depressed as low as the *Dura Mater*, and seen lurking under the Skull. But with the Trepan well applied, that portion of the Skull was drawn out, and the Wound happily cured, neither did there happen any grievous Symptome upon the Incision of the *Crotaphita*.

The

The 435 Observation or History of Famous and Rare Cures, &c.

A Canker.

A Certain Woman fifty years of Age had a Canker in her left Dug, which began to ulcerate: a young Chyrurgeon, a Forreigner, applied the following Medicament.

Take *Aqua fortis*, one ounce: *Crude Sublimate*, four ounces: *Sal Ammoniack*, two ounces: *Arsenick*, one dram: put all into an *Alimbeck* and still them till they become dry, adding as much distilled *Vinegar* as answers the weight of the powders. Still the *Vinegar* again, till the matter come to be as thick as *Paste*.

First he carefully washed the Canker with hot Wine with Cloths dipped therein, and rubbed it lustily, to stir up the Humors in the part. Then he spread of the *Paste* upon a bolster six times smaller then the swelling, which he left upon the part twenty four hours, and there was made an *Eschar* six times greater than the bolster, so that it did eat the Canker wholly away, and when the *Eschar* fell off, the Ulcer was filled with flesh and then closed up. And in case the foresaid *Eschar* had not taken away the whole Tumor, but that some Roots thereof had remained, those he would have consumed with the powder of red *Precipitate* and burnt *Allum* well mixed.

And to fill the Ulcer with flesh he used only Lint of old rags.

This is worth Observation, That when the *Paste* was laid on, a Fever was presently raised, with vomiting and a Loosness, and much provocation of Urine, which Symptoms continued two or three days, Nature being vexed and provoked with the destructive quality of a Venemous Medicament.

With the same Medicine a Canker was cured upon a Souldiers Nose end, which had eat away the tip of his Nose.

The 436 Observation or History of Famous and Rare Cures, &c.

Another Cure of a Canker.

A Certain old Woman had a Canker in her left Dug, which she had born thirteen years together. Wherein little Cancerous Tumors grew out, which pained her more then the great one upon which they grew, because they were ulcerated. These little Tumors were taken away by frequent Application of Waters of red Poppy, Plantane and Roses, mixed with Honey of Roses at first, but afterwards the Waters were used alone. And in another Woman that had a cancerous Ulcer in her breast, the same Medicine cured the Ulcer quite, and closed it up.

The 437 Observation or History of Famous and Rare Cures, &c.

A Gangrene in a Womans Privy part.

A Woman thirty years of Age, by reason of Sore Travail in her Child-bearing and rending of the Lips of her Privy, contracted a great swelling in the right Lip, by reason of the Concourse of blood into that part, which when she had neglected for three or four days, at length a Gangrene was introduced into the part. I being thereupon sent for, made a large and deep incision into the part of the Water-gate, and then I put my hand into those incisions & drew forth clotters of blood to the quantity of a pound and an half. Afterward I washed the part very well with Wine, Salt, Honey, and Vinegar mixed together and made very hot, and I fomented the same with Linnen Cloths; then I made new Incisions, and washed and Fomented them. Afterwards I cut away certain portions of the inner coat which were putrified, and again fell to fomenting; and I persisted without intermission with such like incisions and Fomentations, until no stink appeared in the part, and that all the corrupted portions were taken

taken away. And afterward, the foresaid Fomentations were continued day and night, for two or three days together, after which I mixed *Unguentum Ægyptiacum*, and *Aureum*, and applied to the part: and finally the Ulcer was closed up with *Aqua Vulneraria*.

By the same Method a Citizen of *Montpelier* was Cured of a Gangrene in his Testicle.

The 438 Observation or History of Famous and Rare Cures, &c.

Another Gangrene in the Foot.

A Gentlewoman through a long sickness, contracted a Gangrene in her Foot, which being only in its beginning, was perfectly cured by continually Fomenting the same with a Vulnerary Decoction made of round Birthwort Roots, *Rhaponticum*, Zedoary, Myrrh, Aloes, and white Wine, unto which after boyling and straining, was added *Aqua Vita* with *Camphire*, dissolved therein.

The 439 Observation or History of Famous and Rare Cures, &c.

Another Gangrene in the Foot.

A Certain Gentleman had a Gangrene in his Foot, which was gone so far, that the Physicians and Chyrurgeons had resolved to cut his Leg off, which they deferring to do till the next day, when they were gone there came an Emperick, who undertook to cure the Gangrene, whereupon the Patient submitted to his Cure, and he Fomented the part all night with water in which Lime and Chalk had been boyled, and in the morning the Gangrene appeared wholly taken away.

The 440 Observation or History of Famous and Rare Cures, &c.

A Wenn.

THE Son of Msr. *Malafosse* a Merchant of *Montpelier*, had a great Wenn as big as a large fist, under his Shoulder blade near his Back-bone, which was cured by the following Method. I made me an Instrument of hard wood like the stone with which Painters grind their colours upon a Marble; with which I did rub and grind upon the Wenn half an hour at a time twice a day: then I laid on an Emollient and suppurating Plaister very hot, which I kept on for four or five days; and the Wenn came to suppuration, and being opened the matter or Quittor came forth being liquid, and afterwards all the substance contained in the Wenn was turned into matter and Evacuated, and the Ulcer was healed up. The foresaid grinding and rubbing with the wooden Instrument serves to break the bag in which the Wenn is contained, and by that means also the matter contained in the Wenn is attenuated and divided into small particles, that it may the sooner come to digestion: Instead of a Cataplasme, an hot loaf newly taken out of the Oven and cut asunder in the middest may profitably be applied.

This kind of Cure wrought the same effect in many other Patients.

The 441 Observation or History of Famous and Rares Cures, &c.

The Letchers Pox in a new born Child.

A Woman infected with the Whore-masters Pox brought forth a Man-child with Pustules and Ulcers in divers parts of his body, who was cured with white Precipitate given in the quantity of two or three grains with Sugar and Milk, every day or every other day for a Moneth together. He began to take it upon the fifteenth day after he was born.

The

The 442 Observation or History of Famous and Rare Cures, &c.

Kidneys turned into Quittor.

A Maid of eighteen years old did along time void Urines with Quittor or matter in them, having a continual flow and Hectick Fever, and at length she died. Her body being opened, her Kidneys were found wholly changed into Quittor, so that the Coats of the Kidneys were wholly filled with Purulent matter, there appearing not so much as any reliques of the flesh of the Kidneys.

The 443 Observation or History of Famous and Rare Cures, &c.

A Spot in the Tunicle Cornea.

A Poor Woman had a spot in her Eye, whom I advised to drop twice a day one drop of juyce of Rue into her Eye: which when she had practised a good while together, the spot was taken away.

The 444 Observation or History of Famous and Rare Cures, &c.

Gutta Serena.

A Young woman was taken with the *Gutta Serena* [that is, a kind of blindness, in which no fault can be seen in the Eyes] with which she was so grieved, that she was resolved to starve her self to Death. Yet her Husband and others that were about her did compel her by force to take down a little broth or wine, but it was very little which she would take, rejecting all kind of Nutriment as much as in her lay. She continued in this condition an whole year, and was extream lean, her natural heat for want of food devouring the substantial moisture of her body: and therewith all the Humors likewise of her body were consumed, and that among the rest which had caused her Blindness; and so she recovered her sight, and was by little and little brought up again by a restorative Diet.

The 445 Observation or History of Famous and Rare Cures, &c.

Children with crooked Legs.

Many times, Children when they are two years old, and begin to go, prove crook-legged, whereat their Mothers being troubled, do ask advise of Chyrurgeons, which commonly endeavour with divers engines and devices to strengthen their Legs and Thighs. But all is for the most part labour lost, because ordinarily, about the third or fourth year of their Age, their Bones and Muscles grow naturally stronger, and the parts returne into the natural Rectitude.

The 446 Observation or History of Famous and Rare Cures, &c.

Head-ach called Cephalæa and Hemicrania,

IN the *Hemicrania*, when one part of the Head akes by reason of an hot Cause in that kind of pain which *Gordonius* does term *Clavus* or the Nail, which is a pain fixed in the Temples, the opening of an Artery does wonderfully help, which I have safely performed in

many. I bound down the Orifice with a single bolster made of a double clout, and wet in cold water as in the case of Ordinary Phlebotomy, which I swathed with such a Swath-band as *Galen* calls the Hare without Ears, and the blood never breaks forth afterward. Also I have seen a lasting *Cephalea*, or universal Head-ach cured in the Hospital by applying a Potential Caustick unto the Temporal Artery. For the Eschar being come away, which was caused by the Potential Caustick applied upon the Veins and Arteries, no flux of blood follows; because provident Nature while she endeavours to separate the Eschar, does without breed new flesh, wherewith the mouths of the Vessels are closed up. And whereas it is objected, that great bleedings in wounds which are stopped by actual Cauterics or Corrosives, are oftentimes renewed, when the Eschar comes away. I answer, That those Eschars are thinner, and fall away sooner, and therefore there is not in the mean space time enough to breed new flesh; but such Eschars as are made by a Potential Caustery, are more thick and solid, and are long before they come away, so that there is time enough for new flesh to breed and stop up the Veins.

The 447 Observation or History of Famous and Rare Cures, &c.

Madness.

There was a certain young Man mad, and for his Cure the most effectually Remedies were put in practice, so far as to come to the use of Antimony, the Trepan, and the opening of the Arteries of his Temples. And when all did no good, I advised that he should be guilded; which being done, all Symptoms were abated, and his fury ceased quite; yet so that he continued in melancholy dotage, his madness being changed into Melancholy.

The 448 Observation or History of Famous and Rare Cures, &c.

Stoppage of Urine.

I Have made a tryal of an effectual Medicine for stoppage of the Urine in three Patients. It is made of the brain of a Mag-pie dried and drank in white wine. Within an hour it makes the Patient to Piss.

The 449 Observation or History of Famous and Rare Cures, &c.

Warts.

Within seven or eight days they are cured with Purslane bruised and rubbed upon them, and then applied as a Pultis, renewing the same twice a day.

The 450 Observation or History of Famous and Rare Cures, &c.

Corns on the feet or toes.

Cut the Corns when the Moon is in the wain, first washing the feet a pretty while in hot water. Then apply Ivy Leaves bruised, and renew the same every day morning and evening: within fifteen days the Corns are drawn out; by which we learn, that there is in Ivy a most Potent attractive Faculty,

The 451 Observation or History of Famous and Rare Cures, &c.

Burnings.

THE said Ivy helps Burnings, if the Leaves thereof be boyled in water, and so applied. The

The 452 Observation or History of Famous and Rare Cures, &c.

The Pestilence.

When there was a most cruel Pestilence at *Montpelier*, in the year 1630. when they were infected with the Plague, they sent to me to know what they should do. I remembering that I had read in *Pareus* that the pickle of those little Fish called Anchoves, had helped some of the Plague, I advised them to take thereof. One Patient drank a porrengerful by it self, another took of it mingled with Urine, and both were cured; for there followed vehement evacuation both by vomit and stool.

The 453 Observation or History of Famous and Rare Cures, &c.

Another Cure of the Plague.

IN the same time of Pestilence, three persons in one Family, viz. the Husband, his Wife, and her Sister were infected, and they drank their own Dung, dissolved in their own Urine and strained through a Cloth, whereupon they purged and vomited most violently, and were all three recovered. We read a story somewhat like this in *Zacutus Lusitanus*, his 89. Observation of his third Book, where he relates, That in the Western Indies there is a little Beast like a Lizzard, frequently to be found in the Fields called *Garit*; the biting whereof is deadly without hope, unless the bitten person do take in mans Dung. Howbeit, 'tis well enough known, that many are holpen of the Plague by other kind of Vomits.

The 454 Observation or History of Famous and Rare Cures, &c.

Gout-pain.

IS quickly eased by fomenting the part pained with the water of Ashen Leaves stilled in a Lead or Pewter still, such as the common People still Roses in.

The 455 Observation or History of Famous and Rare Cures, &c.

Tooth-ach.

I Have freed an infinite company of People from the Tooth-ach by putting a little Cotton wool wet in Oyl of Box wood, into their hollow Teeth. This Oyl is drawn in a Retort with a reverberating Heat, first infusing the Dust thereof in white wine twenty four hours, and then stilling all together. First there comes away an acid water, which does good in the Tooth-ach only by washing the Teeth therewith; after that comes the Oyl, which is to be diligently preserved.

I have also happily used this following Medicament.

Take Seeds of *Plantane* two drams; of *Tormentil* three drams; *Henbane* seed four scruples. Let all be dried and finely powdered, adding thereto one grain of *Opium*. Bind the Powder up in little Nodules, which must be Macerated in the following Decoction.

Take Elder Flowers one handful; Red Roses two pugils: bryl them in Vinegar, and reserve the strained Liquor for the use aforesaid.

These Nodules being steeped in the said Decoction are held and gently pressed between the Teeth, and within a while much moisture flows out of their Mouth, and the pain is taken away.

The 456 Observation or History of Famous and Rare Cures, &c.

Whore-masters Pox.

Henry the third of that Name, King of France, was troubled with the Whore-masters Pox, and could not be cured by his ordinary Physitians. He was informed that Pena who practised Physick at that time in Paris, did cure many of this Disease with a peculiar Medicine which he had learned of a Turk: whereupon he commanded him to be sent for, and he was by him cured. Now the Medicine he used was this:

Take of the Roots of the great Burdock cut in thin slices, eight ounces: white Wine, and Spring water, of each two pound. Let them boyl together till half the Liquor be consumed, adding towards the ends an ounce, or an ounce and a half of Senna, according to the Patients disposition. Let the Patient take half a pint of the strained Liquor, and procure sweat by laying hot flints tied up in Cloths, one near the soles of his Feet, by each Leg one, by each Thigh one, and by each Shoulder one, and being close covered. Let him sweat plentifully an hour and half together; and about evening he will have a stool or two.

This Medicine was used (universal Remedies being premised) for the space of fifteen or twenty days, and in the mean time instead of ordinary Drink, he used a Decoction of China, or Sarsa-Perilla, with a suitable diet.

After the use of the Medicaments, he took every day in the morning, the Decoction of Burdock Root without the Senna and without any observance for a Moneth or forty days.

The 457 Observation or History of Famous and Rare Cures, &c.

Stoppage of Urine.

AN Apothecary of Paris, named Lafoxilliere, being troubled with a stoppage of his Urine, after many Medicines for four days together, taken in vain, he made himself this following Medicament, which made him piss and cured him.

Take white Canary Wine four ounces; Juyce of Lemmons one ounce; Spirit of Turpentine two drams. Mix all into a potion.

The 458 Observation or History of Famous and Rare Cures, &c.

Of the internal Hemorrhoids.

The said Apothecary Lafoxilliere did happily cure the internal Hemorrhoids by injecting with a Syringe in the first place this following Decoction.

Take of the middle bark of an Elm-tree two ounces; of the Roots of *Tapsus barbatus* half an ounce. River Water four pints. Boyl all to the consumption of half the water, and strain out the Liquor for the use aforesaid.

After the Injection, let a Pill made of Crude Antimony, and Litharge of Gold finely powdered, and mixed with Oyntment of Roses be put into the Fundament.

The Pill being put into the Fundament, let the compass thereof be anointed with this following Oyntment.

Take Juyce of the greater Honsleek, Plantane, *Tapsus barbatus*, and Night shade, of each four ounces; Hogs Grease one pound. Boyl all till the Juyces are consumed, strain it through a Linnen Cloth and when it is cold, add thereto the Powder of Cray-fish, or River-Crabs dried in an Oven, half an ounce; *Tapsus barbatus* in powder, and the powder of Periwinkle shells, of each two drams. Make all into an Oyntment. Continue these Medicines morning and evening for eight days together.

The 459 Observation or History of Famous and Rare Cures, &c.

Universal pains.

A Certain man forty years old, was tormented with universal pains, which could not be allayed by many Medicines prescribed by Physicians. At last by the advice of a silly Woman his whole body was covered with Elder Leaves tied up in two great sacks, and heated in the Bakers Oven after the Bread was drawn, which made him sweat plentifully. And with this Medicine thrice repeated, he was perfectly cured of his pains.

The 460 Observation or History of Famous and Rare Cures, &c.

A cancerous swelling of the Gums.

A Certain Maid twenty five years old had an hard swelling in her upper Gum over the Dog tooth as big as half a nut, which was twice cut away with an incision knife, and then seared with a red hot Iron, and still it came again. And after the second operation the Ulcer and tumor remaining, she was by me perfectly cured by applying red Precipitate mixed with burnt Allum, with which I besprinkled some lint wet with spittle, or mingled it with *Unguentum Apostolorum*, and being applied fresh every day, within six weeks it was well cured, and the Tumor being wholly eaten away by the corrosive Medicament, new flesh was procured by application of Lint scraped from Cloth, applying to the naked bone Guido his *Pulvis Catagmaticus*; and so the Ulcer was healed up, and brought to a Scar.

The 461 Observation or History of Famous and Rare Cures, &c.

A fleshy Excrecence in the throat.

A Certain Taylor of *Montpelier*, eating of fish had a large bone-stuck in his throat, and as he pulled it out he rent his throat, whereupon in process of time there arose a piece of flesh in his throat near the Palate of his Mouth or Uvula bigger than a nut: to the Cure whereof he called an Emperick, who by an actual Cautery frequently applyed, consumed the swelling: but the Ulcer being not perfectly healed up, the swelling returned, and he called another Emperick, who by frequent application of Oyl of Vitriol consumed the Tumor, and brought it to a perfect Scar.

The 462 Observation or History of Famous and Rare Cures, &c.

Running of the Reins.

With Conserve of the fruit of *Bruscus* or Butchers-broom given the Quantity of two drams for half an Ounce for some days together, I have cured divers Gonorrhæa's. Water filled out of the said fruit works the same effect.

The 463 Observation or History of Famous and Rare Cures, &c.

*A great piece of a Sword lies long concealed in a Wound,
and at last is drawn out.*

M^r. *de Suellies* in a single Combate received a Wound in his shoulder above the shoulder blade, which went in at the upper part, and came out at the nether part, and

and there remained a piece of a sword therein a foot long; which the Chirurgeon not knowing he healed up the Wound, the sword's end remaining within concealed between the shoulder blade, and the muscles which cover the same. In this condition he remained whole seven years together, oftentimes feeling pains in that part. At length Nature driving the Iron towards the upper part where the Scar of the Wound was, a certain rising appeared with pain, whereunto a Caustick being applied and the Scar opened, the end of the Iron appeared, which with the Instrument called a Cranes-bil was taken hold of, and easily plucked out all over rusty.

The 464 Observation or History of Famous and Rare Cures, &c.

Kings-Evil swellings upon the fingers.

THe Daughter of M^r. Duseigneur a Goldsmith ten years old, had hard Kings-Evil swellings on three of her fingers, which were cured by the smoak of Vinegar powred upon red hot flints continued morning and evening for a Moneth together, which Remedy is highly extolled by Galen to discuss hard Tumors.

The 465 Observation or History of Famous and Rare Cures, &c.

Sight Impaired in an old Man.

A Certain old man by reason of a defluxion of Rheum falling into his Eyes, had his sight so far weakned, that he could not goe without one to guide him. Of which Disease he was cured and his sight restored by putting into his Eyes every night when he went to bed, five or six of the seeds of Clary, which drew the flegmatick Humors out of his Eyes and cleansed the tunicle or Coat called *Cornea*.

The 466 Observation or History of Famous and Rare Cures, &c.

Whores-Pox in a boy five years old.

I Cured it by giving him every day for twenty days together, four grains of white Precipitate in *Panada*. It wrought only downward, and never fluxt him at all.

Observations communicated by M^r. Peter Estanove, a Skilful Chirurgeon of Montpelier.

The 467 Observation or History of Famous and Rare Cures, &c.

A wound in the Brest.

A Certain Souldier was thrust with a speare into the forepart of his Chest, so that the Wound pierced into the cavity thereof. Within two hours after he was wounded, the whole Bulk of his body together with the Cods was blown up like a bag-pipe; howbeit the said swelling was easily cured with torrifed Bran put into divers bags, and so applied hot.

The

The 468 Observation or History of Famous and Rare Cures, &c.

An Imposthume of the Belly.

A Certain boy having his belly swelled was thought to have the Dropsie; and when his Navil extreemly started out, it was at last opened, and there issued eight or ten pound of well digested matter or Quittor, and so he was perfectly cured. Young Artists may do well to take notice, that in children such Imposthumes of the belly are often ingendred, which appear like a Dropsie, which if they be seasonably opened by a skilful Chyrurgeon the Patients are commonly freed from death, which would otherwise certainly follow.

The 469 Observation or History of Famous and Rare Cures, &c.

Another Imposthume in the belly.

A Certain young Maiden had a swelling in her belly eight Moneths together, with continuall pains, which brought her to extreame Leanness: and every one judged it was the dropsie. I being sent for to her, diligently marking the condition of her belly, I perceived that there was an Imposthume lay concealed between the Muscles of her belly, above the Navil; which I opened with a potential Caustick, whereout Issued fifteen or twenty pound of well conditioned quittor or matter in the compass of certain days; and so the Patient was perfectly cured.

The 470 Observation or History of Famous and Rare Cures, &c.

A Swelling of the Cods.

A Servant of M^r. Richard, Councellour to his Majesty in his Supream Court of Accounts, having received a kick of an horse in the lower part of his belly, in the space of four hours there arose a swelling in his Cod, as big as a childs head, and of a black and blew colour. Which after blood-letting was within the space of ten days discussed with a Cataplasim or Pultis of Barley and Bean Meal, Cummin-seeds, Flowers of Chamomel, Melilot and Roses, powdered and boyled with Oxymel.

A Man that was wounded with a sword in his Loins had the like swelling, which was cured after the same manner, and in the same space of time.

The 471 Observation or History of Famous and Rare Cures, &c.

A stone under the tongue.

A Man forty years old was troubled with grievous and frequent defluxions of Rheum into his jawes and the Almonds of his Eares. At last it was perceived that there grew a stone under his Tongue, which was easily drawn out, and from that time forward the Patient was no more troubled with those defluxions.

The 472 Observation or History of Famous and Rare Cures, &c.

An Horn growing in the face.

A Certain old Woman had growing upon the Bone Zygoma or Cheek-bone under her Eye an hard body two fingers breadth long, justlike an horn both in matter and shape, being broad at the Basis or bottom, and sharp or pointed at the top, which in process of time fell off by its own accord, and a Cancer arose in its place.

OBSER.

*Observations communicated by Msr Denis Pomaret, a
Skilful Chirurgeon of Montpelier.*

The 473 Observation or History of Famous and Rare Cures, &c.

A suppurated Tumor Discuss

Mary Pomaret my Daughter, being eight years old, had a small Tumor proceeding of blood and flegm, on the outside of her nether Jaw, on the right side of her Face, which came to suppuration. But I fearing that her Face would be blemished by the Scar; before I would open the Imposthume, I resolved to try if I could discuss the same, leaning upon the Authority of *Guido*, who in his General Discourse of Imposthumes, saies, that suppurated Imposthumes are sometimes cured by discussion: which is confirmed by a solemn experiment of *Pareus*, who avers that he cured a suppurated Imposthume, with crude Mercury mingled with *Diapalma* Plaister, which discussed the same. In imitation of whom I mingled one dram of the said Mercury, with an ounce of *Diapalma* Plaister, and laid it upon the suppurated Tumor, which within four days space was perfectly discussed.

For to discuss suppurated matter, the following Conditions are requisite. 1. That the matter be little in Quantity. 2. That it be thin and wheyish. 3. That it be in the Skin and surface of the Body, and not in any deep part. 4. That it be in a strong youthful body, and soft fleshed. 5. That it be in the Summer Season of the year.

The 474 Observation or History of Famous and Rare Cures, &c.

A Flegmatick Tumor.

MY said Daughter had an œdomatous or flegmatick Tumor, crude, and come to suppuration, upon the Region of her Loyns, as big as the Palm of ones hand, which was discuss within a few days, by the foresaid plaister.

The 475 Observation or History of Famous and Rare Cures, &c.

A Wenn.

A Capuchin Fryer of the Covent at *Montpelier* twenty five years old, had a Wen upon his Knee, which he had carried about a long time, so that at last it was grown extream soft, in which respect I advised him that it should be opened, because the matter contained within seemed well digested. But he refused, saying, he had seen just such Wens discussed with the Leaves of Sorrel wrapped in a wet paper and roasted in the embers, which was afterward incorporated with sifted ashes into the form of a Pultis. This Medicine he applied divers days warm, and the Tumor vanished wholly away; which I exceedingly admired, and have since that time cured two such Wens in the same part with the same Medicine. *John Guerin*, sixty years old, was troubled with one of those Wens, and the Wife of *Timothy Coula* Carpenter of *Montpelier* had the other.

The 476 Observation or History of Famous and Rare Cures, &c.

Of the Tumor Ecchymosis.

THe Wife of *Petrus Laiardus*, a Merchant of *Montpelier*, fifty years old, fell down the stairs, and received a bruised Wound upon his Head, so that there arose a Tumor caused by the blood which was shed out of the Vessels, which kind of Tumor is called *Ecchymosis*, as big as an Hens Egg. After the first Application of the white of an Egg mixed with Oyl of Roses, and after blood-letting, I began to think of the opening the Tumor with my incision Knife, or bringing the same to suppuration, according to that of *Hypocrates*, in the 20. Aphorisme of his 5. Section; If blood be preternaturally shed into the Belly, it must needs suppurate. Hereunto concurred the store of matter, the age of the Patient, the hardness of the Skin of the Head, and the winter season of the year. But because the Patient would not hear of Incision, and I desired to avoid the pains and other trouble which would come by suppuration, I resolved to try a few daies if I could discuss the Tumor, though I had very small Hopes. Now I went this way to work: First I fomented the part affected twice a day with hot water, half an hour at a time. After the Fomentation, I shaved the part with my Razor against the Hair, that the pores might be more opened, and that all filth sticking to the part might be well cleansed away; and at last I applyed Oyl of Lillies and Chamomel, of each a like quantity, laying thereupon Cotton-wooll perfumed with the smoak of Aromatick powders, and well heated, and so the swelling was perfectly discussed.

The 477 Observation or History of Famous and Rare Cures, &c.

A Carbuncle.

Touching Carbuncles, I have noted two things worthy of Observation; the one is, that though Carbuncles are wont always to have a Feaver accompanying them, by reason of the great Inflammation which we see in them, as *Galen* teaches in his second Book *ad Glauconem*, in these words: *Whenever blood very hot and thick shall suddenly flow into any part, it burns the same, and causes an Ulcer with a Crust; and the parts round about are thereby brought into a burning Inflammation, and vexed with grievous pain.* Howbeit since the time that I have addicted my self to Chirurgery, it has been my hap to see three Carbuncles, which have run through their times without any Feaver, and without any other grievous Symptome, so that the Patients continually followed their Employments; one was in the Cheek, the other in the Neck, and the third under the lower Eye-lid of the left Eye. All which were cured with the same Medicines, wherewith we are wont to cure potential Cauteries, *viz.* Such as procure the falling of the Eschar.

My other Observation touching Carbuncles is, That in that most cruel Pestilence which raged at *Montpelier* in the years 1620. and 1639. there appeared Carbuncles attended with quite different signs from those described by *Galen*, *Guido*, and late Writers. Which was the Cause that very many Physitians and Chirurgeons, yea of the most skilful, did at first err in their Diagnosis of these Carbuncles. Now the different signs appearing in them were weakness, small pulse, the part on which the Carbuncle rose did not swell; a little inflammation encompassed the Pustule, the extream softness of the Eschar arguing putrifaction rather than aduotion, freeness of Motion in the part affected, and no perception of heaviness, which in vulgar Carbuncles is so great, that the part seems tied in bands.

The 478 Observation or History of Famous and Rare Cures, &c.

A fleshy Excrescence on the Right Leg.

A Young man named *Claparede*, had a fleshy Excrescence, which the Greeks call *Sarcoma*, in the inner side of his right Leg, four fingers above the Ankle, of the shape of a Rowling-Pin or Cylindre; the length of it was four fingers breadth, and it was as thick as the Arm of a new born Infant. This Tumor was nourished by an Artery which was carried unto the Basis thereof, which being very broad, could not be bound. If the Patient happened at any time to hit the Tumor with his other Leg, it would fall so a bleeding as to endanger his Life. M^r. *Samuel Formius*, an old skilful Chirurgeon was called to consult with me, and it was Resolved upon between us, to take away the Tumor by the Roots, and to avoid effusion of blood, we sought the *Arteria Poplitea*, which when we had groped out in the upper and inner part of the Leg, we made a bolster hard and compact of Linnen Cloths closely folded together in the shape of a Cylindre or Rowling Pin, which being wet with the juyce of Netles, and smeared with the common Astringent Medicine, we laid upon the Artery all along according to the length thereof, swathing it very many times about with a fillet or swath-band very fast. Then we applied other Bolsters unto the whole Leg, and the extremity of the Thigh smeared with the fore-said Astringent, and swathed very close and strait, Also actual Cauteries were had in a readiness to stop the flux of blood, in case, notwithstanding the fore-said Ligatures, it should break violently forth. All things being thus in a readiness, I took hold of the Tumor with my left hand & drew it outwards, and with my Incision-Knife in my right hand, I cut it out by the Roots, without any profusion of arterial blood. Soon after I applied an Astringent Plaister to the wound, which was left sticking twenty four hours after. Which being taken off, there followed no bleeding at all, not at any time afterward. And because some superfluous and unsound flesh remained upon the part, it was consumed away by gentle Corrosives. The Ulcer yielded well conditioned matter, and at last by detergents, Epuloticks, and such things as bring the Scar together, it was perfectly cured.

The 479 Observation or History of Famous and Rare Cures, &c.

A Stone in a Mans Throat.

A Priest sixty years old, of a sanguine Complexion, was oftentimes troubled with an Inflammation of his Throat, especially when he strained himself more than ordinary in singing; which Inflammation was cured with blood-letting, and a Gargarisme of Vinegar and Water mixed together. In the last coming of the said Inflammation, while I was busily viewing the part affected, I saw an extraneous matter fastened to his Throat, near the end of the lower jaw-bone of the right Cheek, like a Musket Bullet, which I easily drew out; and having carefully washed it, I found it to be no other than an hard and compacted stone, shaped like a wild pear, the Tail whereof had been fastened in the Muscles called *Masseteres*, or the Champers. There remained a round mattering Ulcer, which was cleansed with Honey and Wine, and healed up.

The 480 Observation or History of Famous and Rares Cures, &c.

Wound of a Gum.

M^r. *de Roques Junior*, surnamed the Knight, at the Siege of *Salsa*, was wounded with a shot in the upper and middle part of his Brett-bone, which was carried Obliquely unto his back, and went out six fingers breadth distant from the Back-bone. Presently after he was wounded, he perceived most sharp pricking pains in the *Oesophagus*, or mouth of his Stomach, as if there were thorns sticking there, and because he was choaked with blood, he endeavoured

endeavoured strongly to cast it out; and at last after many and frequent strainings, and much voidance of blood, wherewith many Basins were filled, the pricking pain of the *Oesophagus* wholly ceased. After many days, the Patient going to stool, found the like pricking pains in his Fundament, which he had felt in his Stomach; and feeling with his finger what the matter was, he found a solid pricking substance, which by little and little he drew out, and presently voided another like the former. Now these were two thin fragments of a bone, broad and flat like the leaves of a Tree, on the one side smooth, on the other side rough; and the ends were sharp and cutting, like the edge of a Knife. It was judged, that the bullet had razed off these two fragments from his breast-bone, and violently driven them into his *Oesophagus*; whence arose that pricking pain of that part, so long as the said fragments remained fastened in the part. But after many strainings to vomit, they being removed and thrust into the Stomach, the pricking pain ceased; but after some days those fragments slipping into the Guts, the same pain arose in the Fundament. These fragments were as broad as ones little finger, but longer than the same.

The 481 Observation or History of Famous and Rare Cures, &c.

Kings-Evil Swellings.

A Certain Country-woman having very many Kings-Evil swellings in her Neck and Head, coming to me, shewed me two Ulcers upon the *Os Petrosum*, and two soft Tumors in her Head, one upon the right bone of the *Sinciput*, and the other upon the *Os Occipitis*, being distant three fingers breadth one from another. I opened the Ulcer by Incision, and found the *Os Petrosum* beginning to perish. And because I feared some such thing lay hid under the foresaid Tumors, I thought good to open them with a potential Caustick; which being done, and the Eschars removed both under the Tumors (strange to tell) the Skull was perforated, as if it had been done with a Trepan, and the holes were as big, as Farthings, by means of which, the motion of the brain might easily be discerned in its Coats, upon which some purulent matter floated; and I could not find any the least bit of a Bone. Some days after the poor miserable Patient, weary of so many sores and sufferings, threw her self Head-long into a pit of water and and drowned her self.

Here is to be noted the wonderfull malignity and sharpness of that Humor which causes the Kings-Evil, which is able to melt and dissolve bones.

The 482 Observation or History of Famous and Rare Cures, &c.

Phrensie.

A Certain Husbandman named *Poulet*, by reason of a burning Feaver, fell into a Phrensie, and continually raving without sleep, he cried out, That he was damned, and that he desired to die. Now I cured him by this policy, I consented and told him that I would kill him, and divers Horse-leeches being fastened upon his forehead, and blood running down from the wounds which they had made; I shewed him my Razor, I scraped his throat very hard; and in the mean while the Razor is all bloodied with the blood that came from his Forehead. Whereupon shewing him the bloody Razor, I told him that he was kill'd, and presently I covered his Face with Linnen Cloths, and shut the Windows, so that no light could be seen in the Chamber. He supposing himself to be dead, never stirred, and a while after was taken with a deep sleep, and so was freed from his Phrensie.

The 483 Observation or History of Famous and Rare Cures, &c.

Slipping down of the Womb.

A Certain Woman troubled with falling down of her Womb, with great force crowded in to her Womb a round piece of Wax as big as an hand-ball; which she carried ten years in her Womb, never troubled with that Disease. Which I found after her death by dissecting her body, she dying of a continual Feaver; for I found the foresaid ball in her Womb, and her Sister affirmed, that it was thrust in more than ten years before, and had abode there ever since.

The 484 Observation or History of Famous and Rare Cures, &c.

A Tumor caused by ill opening a Vein.

A N honest Virgin named *Margaret Varsaline* of *Villa Nova*, being let blood by an unskilful Chirurgeon, had an Aneurisma happened unto her, by reason of an Artery opened with the Vein, which having Resolving Medicines applied unto it from the beginning grew to a great bigness. Advice being taken, it was Resolved, that the Tumor should be opened, the Artery being first tied in the upper part, to which Opinion the Patient would not consent. But leaving her former Chirurgeon, she came to me, and entreated me to try the Cure with outward Applications. I, endeavouring to satisfy her, did apply bolsters to the part, wet with an astringent Decoction, and bound them close down. Which being continued for ten or twelve days, the swelling was much abated. Afterwards the Patient returned to *Villa Nova*, where using no Medicines, and stirring her Arm with divers works, she raised the swelling again to a great height, with great pain, watching, inquietness, feaver, head-ach, thirst and other Symptoms. For which cause she sent for me, and *Msr. Formius*, an ancient Chirurgeon. We conceived it best to open the Tumor, the Artery being first bound with strong bolsters, as we did in the Operation upon *Claparedus*, aforesaid, but the Patient would by no means hear of it. After twelve days the Tumor opened of it self in the same place where the Vein had been opened; and by the hole, which was but small, there came out thin black blood, which did not stink; and the following days there issued matter or quittor well conditioned, but in small quantity, and at last the Ulcer was brought unto a Cicatrice or Scar, and the Patient was perfectly healed. Only this Inconvenience remained, that she was not able to stretch her Arm forth, but was fain to carry it half bent.

The 485 Observation or History of Famous and Rares Cures, &c.

Pain of the Cholick.

THE Wife of *Msr. Sartreus*, Councellour to his Majesty in the Court of Accounts, Subsidies, and the Exchequer, had a grievous pain in her belly for a Moneth together, and having used many Medicaments in vain; At last I applyed a great Cupping-Glass to her Navil, where with six or seven ounces of wheyish Humor were evacuated, and the Patient freed from her pains.

The 486 Observation or History of Famous and Rare Cures, &c.

A Pleurisie.

THE Footman of *Msr. Demanse*, General-Treasurer of France, being very hot with running, and all wet with sweat, drank plentifully of cold water, and a little after he was taken

ken with a grievous pain in his side, with such difficulty of breathing, that he seemed to be choaked. I being presently sent for, let him blood in a large quantity, and as the blood issued out, the difficulty of breathing, and the pain of his side were by little and little abated; and when the blood-letting was finished, both the Symptoms perfectly ceased, and the sick person was wholly cured.

The 487 Observation or History of Famous and Rare Cures, &c.

A Tooth pluckt out, and fastened in the Gum again.

A Certain Virgin dwelling in a Neighbouring Village, being tormented with the Tooth-ach; which she thought was caused by one of her Grinders which was rotten, she sent for a Chirurgeon to draw her Tooth. He pluckt out the next Tooth being sound, and suddenly perceiving his Error, drew out the rotten Tooth: and soon after having washed the hole of the former Tooth with Wine, he thrust in the sound Tooth again; and prescribed an astringent Gargarism of red Roses, Balauftins, Pomgranate Rinds, Lentisk-wood, and Allum boiled in water and harsh red Wine, which the Patient often used. And he bad her for certain days to use only supping meats, and to abstain from all chewing. And so the Tooth which had been pulled out, was fastened in its place again.

The 488 Observation or History of Famous and Rare Cures, &c.

The Whore-Masters Pox.

Chirurgeons are wont sometimes to err in the Cure of the Lechers Pox, when after the ordinary Remedies conveniently practised, they imagine the Patients are not perfectly cured, because some Symptoms attending the said Pox, do as yet appear; whereupon they do sometimes cast their Patients into fresh torments, and at last force them Headlong into an Atrophy or a Consumption. Whereas those Symptoms are wont to go away of themselves after a short time, or else are cured with some light Topick Medicines outwardly applied.

While I was at Paris with M^r. Helot, a very skilful Chirurgeon, a Gentleman of Paris, of a Melancholick Constitution offered himself to be cured, who besides pains in the Night, and other Symptoms of the Whore-Masters Pox, had a swelling in his Neck bred of flegm and melancholy. After he had been anointed with Mercury, he was abundantly fluxed, and all tokens of the said Pox were wholly taken away, excepting only the Tumor, of which two third parts were discussed. The Patient thought that he was not cured, because of the Tumor remaining. But another Elder Chirurgeon being called, perswaded him that he was cured; and *Vigo* his Plaister with the Mercury quadruplicated being laid on, it was discussed in the space of a Moneth.

Another Gentleman committed to my care, after that I had fluxed him, thought that he was not cured, because there remained an Ulcer in his Neck, and in the Region of his *Oesophagus*. Howbeit this Ulcer was cured with ordinary Remedies in a Moneth, without any Medicine proper to the Whores-Pox.

I had another in hand, who among other Symptoms had a great pain in his Shin-bone. He was of a Cholerick Complexion, and had been four times smeared with Mercurial Unguents, which had brought him extream lean. He used a moistening Diet for a Moneth together: Afterwards he was smeared all over with the Mercurial Unction, and with this friction alone his pain was taken away. He was fluxed, and voided for a whole Moneths space that way Humors thin, yellow and very stinking, afterward for fifteen days he voided thick flegm. Which Evacuation continuing too long, I was forced to expose him to the open Air, that it might be stopped the sooner. At last Incision was made upon the place where the pain had formerly been, and corruption was found in the bone, which was taken away by an actual Cautey and *Pulvis Catagmaticus*, and the Patient perfectly Cured.

The last Example shall be of a certain Knight, who was cured of the Whore-masters Pox by the ordinary Method. Yet there remained extream pains in all his Joynts, that he could not move his Limbs without crying out. Msr. Delort, the Kings Professor at *Montpelier*, and very well exercised in the Practice of Physick, diligently enquiring into the cause of these pains, conceived that they came not from the Letchers Pox; but rather from a dry distemper, possessing the Ligaments conjoyning the bones, and the Nervous parts annexed to them. And taking his Indication from the said distemper, he prescribed him a moistening Diet and bathing, by the continual use of which, he was perfectly cured.

*Observations communicated by Msr. Ofias Aimar, a
Famous Chirurgeon of Grenoble.*

The 489 Observation or History of Famous and Rare Cures, &c.

A contused Wound in the Eye.

THE most renowned Msr. the Lord of *Servien*, who was a Plenipotentiary Ambassador at *Munster* about making of Peace, many years since in a Tennis-Court at *Paris* was wounded in his left Eye with a Tennis-ball, whereupon grievous pains arose. The Learned and Experienced Chirurgeons of *Paris* used all Medicines and Remedies which seemed necessary for the Cure of this Accident according to the Rules of Art; and among other things, when they perceived an *Ecchymosis*, or swelling upon the *Conjunctiva*, they endeavoured by light Scarifications to draw away the extravagated blood. Howbeit, the pain continued as it was; He therefore finding himself to grow worse and worse, resolved to come to *Grenoble*, that he might submit himself to my Care. And I by many Blood-lettings, Cupping-Glasses, and many Topical Medicines applied to the part affected, endeavoured to qualifie and mitigate the Disease. But when all would do no good, I perswaded him at last to suffer one to look into his Eye, which before he would never grant, because of the extream pain which the light coming into his Eye, did put him unto. Having therefore opened his Eye, I saw a white substance covering the whole sight of his Eye, which I conceived to be that which Authors call *Hypopion*, and judged that it ought to be opened, to evacuate the matter contained therein, which caused continual pains. Having therefore made a light Incision, a small clot of blood came out, which outwardly was white, and within red. Which being gone, all the pain ceased forthwith, and within a few days the Patient began to endure the light, and shortly after was restored to perfect Health.

The 490 Observation or History of Famous and Rare Cures, &c.

An Ulcer with Rottenness in the Brest-bone.

MR. *Speaute*, General-Treasurer of *France*, had a schirrhous or hard senseless Tumor on his Brest-bone, which after a year was past, did open of it self. I searching the Ulcer, found the bones underneath perished, unto which I applied many actual Cauteries, and at last with detergents and Epuloticks I brought the Ulcer to a Scar, not omitting universal Medicines respecting the antecedent Cause.

The 491 Observation or History of Famous and Rare Cures, &c.

Ribs infected with Rottenness.

A Certain Matron forty years of age, being vexed with vehement pain on her left side, with a slow Fever and extenuation of her whole body; after that for a year together she had tried many Remedies to no purpose in a Village where she dwelt, twelve miles distant from *Grenoble*, at last she came to *Grenoble*, and committed her self to my care. I presently examining the pain'd side, found there an Imposthume suppurated, and having made a large incision crosswise, I drew out two Porrengers full of very uneven and most stinking matter. The which being evacuated, I found three Ribs much corrupted at the ends, viz. the fourth, fifth and sixth Ribs, reckoning from the lowest to the highest. I was compelled to cut off those Ribs the length of three fingers breadth, applying afterwards to their extremities an actual Cautery. Here the providence of Nature was admirable, for she lived and armed the the Pleura or Membrane compassing the Ribs, and underneath those Ribs infected with rottenness, with much flesh to Roborate the same, and so to supply the defect of the Ribs. This Matron by a restorative Diet, and the use of Milk, was afterward reduced to perfect health.

Msr. de Bessin, Captain of a band of Souldiers, had for a long time a schirrhous or hard senseless Tumor in his left side upon the true Ribs, viz. the fifth, sixth and seventh. A certain Chirurgion opened the Tumor with an actual Cautery, out of which there came very little matter, and there remained very grievous pains in the part; which compelled him, living in the Country, to come to *Grenoble*, and implore my help. I found the Ulcer as big as the palm of ones hand, and the Ribs underneath infected more than half their length with rottenness. Premising therefore universal Medicaments, I cut off the extremities of the Ribs the quantity of four fingers breadth, applying afterward an actual Cautery to their extremities. Finally, with Catagmatical powders I procured a separation of the burned parts, and with detergent and incarnating Medicines I did heal up the Ulcer, and bring it to a Scar.

The 492 Observation or History of Famous and Rare Cures, &c.

A Fracture of the Temple-Bone.

A Man forty years old was wounded on his right Temple, and the bone beneath received a great fracture. Being called unto him, and finding it was necessary to use the Trepan, I made a Cross-fashioned Incision upon the temporal Muscles, without any supervenient Symptome, although Authors do much fear the wounding of those Muscles, as being of most dangerous consequence. I applied my Trepan, replaced the depressed bones, and all things being rightly administered, the Patient was happily reduced to his health.

The 493 Observation or History of Famous and Rare Cures, &c.

The Aspera Arteria wounded with Gun-shot.

THE Maid-servant of Msr. de Viviers, his Majesties Secretary in the Parliament of *Grenoble*, was wounded with a Pistol-charged with three small bullets in her throat under the Larynx, and the three Bullets she voided at her Mouth, out of three holes in her *Aspera Arteria* or Wind-pipe, the wind came out with a noise and hissing. And although that cartilaginous and gristly part is healed with great difficulty: yet diligent care being taken, those wounds were perfectly healed up.

The 494 Observation or History of Famous and Rare Cures, &c.

An Empyema through a Wound of the Epigastrium.

AN *Occitanian* Gentleman was at *Grenoble* wounded with a Dagger in his Belly above his Navil, the Wound growing into the cavity of his Belly, without hurting his Guts or his Stomach. In short time this Wound was healed up: Howbeit two Moneths after he comes to me oppressed with a great shortness of breath, and with sense of weight in his Brest, and a continual stink in his Mouth. These Symptoms caused a great suspicion of Quittor or purulent matter collected in his Chest. But I looking for the Scar of his former Wound, and finding it in the upper part of his Belly, I admired how a Wound inflicted in the Belly could cause a collection of matter in the Chest. At last enquiring in what posture the Patient was when he was wounded; he said, *He was then upon a pair of stairs in a certain house, and he that wounded him stood upon a lower stair, and so struck the Dagger in his Belly.* Whereby I came to conjecture, that the wound taking its passage from beneath upwards, had pierced the Midriff, and had come into the cavity of the Chest, by which means matter might easily proceed from the blood shed out of the Veins of the wounded *Diaphragma* or Midriff. I opened his side between the fourth and fifth true Ribs, reckoning from the lowest upward, four fingers breadth from the back-bone. Apertion being made, there came out white Quittor very stinking: at the first bout I took away three porringers, the day after as much more, and so by little and little all the purulent matter being voided, the Patient with two Moneths was perfectly cured.

The 495 Observation or History of Famous and Rare Cures, &c.

A Gangrene of the Perinaem, Fundament and Cods.

MSr. *Pourroy*, Master of the Chamber of Accounts at *Grenoble*, sixty years of age, had a swelling in *Perinaeo* [that is, the space between the Cods and Fundament] which an Apothecary had only in Cure. A Gangrene invaded those parts, to the Cure whereof I being called, I found that it possessed the Cods, the *Perinaem* and the Fundament. Presently I made many Scarrifications, and those pretty deep; and I often washed the parts with Vinegar, Salt, *Aqua-vita*, *Unguentum*, *Aegyptiacum*, and Mercury sublimate mixed together. Howbeit these things did not hinder the progress of the Gangrene, so that I was forced to have recourse to actual Cauteries, by help whereof the Gangrene was stopped. So great a stink came from those parts, that it poisoned the by-standers. A great quantity of corrupted flesh fell away: The *Uretra* was wholly detected, and had two holes eaten through it, by which the Urine came out. Nevertheless all those parts were united, incarnated, and happily healed up.

The 496 Observation or History of Famous and Rare Cures, &c.

A desperate Rupture Cured by Cutting.

ACertain Proctor of *Grenoble* named *Baro*, by reason of the slipping of his Gut into his Cod, fell into the Iliack passion, because his Gut was filled with dung, which being very much hardened did hinder the reposition of his Gut. After many Remedies practiced nine days together, all in vain, I was called to consultation with M^{rs}. *de Ville-neuve* and *Davins*, renowned Physicians. Delivering my Opinion, I said, that the part was to be opened till we came to the production of the *Peritoneum*, which did Choak the Gut; howbeit it was to be feared least the Gut by reason of the long continuance of the Disease were gangrenated: and yet it was good to follow the saying of *Celsus*, viz. that it is better to use an hazardous Remedy, than

than to leave the Patient to a certain destruction. The renowned Physicians were of the same mind. Wherefore having placed the Patient in a convenient Situation, I made an incision in his Groin, till I came to the Peritonæum, being very careful not to hurt the Gut. Afterward I thrust a silver Pipe round on the one side, and hollow on the other, into the production of the Peritonæum and upon the Cavity of the Pipe, I opened the said production so wide as that I might restore the dislodged Gut. Then I thrust the Gut gently into the Belly, sewed up the production, and the Wounds of the other parts I perfectly healed with the Suture Gastraphia and Conglutinating Medicines.

The 497 Observation or History of Famous and Rare Cures, &c.

An Imposthume of the Loins reaching unto the Kidneys.

A Gentleman of *Grenoble* had a Tumor in the Region of his Kidney, which came to suppuration; and it being opened, a great quantity of wheyish matter issued forth. Some daies after there came out of the Ulcer two stones as big as Almonds; which made me to admire. But marking the deepness of the Ulcer, which reached four fingers breadth, and seeing other stones as big as beans come forth of the Ulcer; I was made to believe that those stones came from the Kidney which was likewise Ulcerated. This was more credible, because there flowed continually out of the Ulcer a great quantity of wheyish Excrements, infecting the Cloths within a few hours with so much moisture, as if they had been soaked in water. Also purulent matter came sometime away with his Urine at the Yard. This accident happened ten years ago, and the Ulcer came to be a Fistula, which oftentimes is shut up three or four moneths together, and then it opened again and sent forth a certain bloody matter, and then it shut again of it self. The Patient lived very conveniently in that condition, and freely performed all the ordinary actions of a Man.

The 498 Observation or History of Famous and Rare Cures, &c.

A Rare kind of Convulsion.

Mr. *de Bullen* a Souldier, the Bullet of a piece of Ordnance was wounded in his right Arm; and the Bullet took his whole Arm away, only that part next his shoulder was left as much as four fingers breadth. His Arm being Cured, and the Wound perfectly healed up, he was taken with a kind of Convulsion, which drew his head backwards towards the right side. And it frequently agitated his Jaws; so that he was fain to have linnen Cloth alwaies between his Teeth, which ever and anon he was wont to bite and grind with his Teeth. He called many Consultations of Physicians and Chirurgeons, who all were of Opinion, that in the extremity of the bone which was taken away by the Bullet, there was some sharp point which pricked some Nerve, and caused this Convulsion; and that therefore the extremity of the bone must be again opened, and diligently made smooth and even. This work being diligently performed, did no good, but the Patient was vexed after the same manner, which took from him all hope of Cure. By great hap I met him, and he told me his trouble: it came into my mind, that some hidden venome of the Whores-Pox might peradventure cause this Accident. And I asked him presently, whether or no when he was wounded he had any Whores-Pocky Disease upon him, or whether he had formerly had any; He answered, that a little before he was wounded, he had been troubled with a grievous Gonorrhæa, which notwithstanding had been perfectly Cured. This increased my conjecture, so that I advised the Patient to try such Medicines as are given against the Pox: whereunto, being very desirous of help, he willingly submitted. Premising therefore Universal purgation, and a Sudorific Diet-drink; I rubbed him with Mercurial Unguents, by which he was fluxed: and after the third day of his fluxing was over, those Contractions and Convulsions ceased, and he was never troubled with them again.

Observations which I Learned here and there by accident.

The 499 Observation or History of Famous and Rare Cures, &c.

An Ulcer of the Kidneys.

I Have been told, that an Emperick cured an Ulcer of the Kidneys only by anointing it with a Mercurial Unguent.

The 500 Observation or History of Famous and Rare Cures, &c.

A Crooked Back.

M Sr. Francis Ranchinus, Chancellor of the Faculty of Physick at Montpelier, told me the manner how he cured a Luxation, or disjoynting of the Back-bone of the most Renowned Lady, Madam de Montmorencie, which proceeded from a Catarrh falling from the brain upon the Back-bone, by which two of the *Vertebra* in the middle of the Back-bone were disjoynted. He therefore, after universal Remedies, to reduce the *Vertebra*, first made use of a press, such as Barbers use to press their Trimming Linnen. Which did much good, for he put one board to her Brest, the other to her Back, and so she was pressed by little and little, the little bolsters of Linnen being put between the wood and her body. But this Remedy was found inconvenient, for by pressing of her Brest, it made her have a difficulty in her breathing. At last he used such an Instrument as they have in Coaches or Waggon to lift them up, when they stick fast in an hollow way, and is called in French a *Cric*, to the circular end whereof he fastened a piece of wood which was to be set to the dislocated *Vertebra*, a little pillow being between. The other end of this Instrument was set against the Wall, and then the Patient was held fast by her shoulder-blades, and the Instrument gently forced, till she could no longer endure the Pain, and then they ceased. And this was done twice a day, and so by little and little the said Luxation was perfectly Cured.

The 501 Observation or History of Famous and Rare Cures, &c.

Inflammation of the Eyes with filth.

A Child new born was troubled with redness of the Eyes, and much filth which came from them like Quittor; the Disease continued three moneths, and Oyntments, and Eye-Salves were applied, which did no good. At last by prescription of a Certain Physician, Cotton-wooll was every night laid upon each Eye, being first diligently dried over the coals, and well teased and pulled asunder with the fingers, and afterward each Eye was covered with a little Cotton in manner of a Bolster, which was swathed down. In the Morning the Cotton wooll was taken off, much fouled with the foresaid matter. This Remedy being continued divers nights together, the Infant was perfectly Cured.

The 502 Observation or History of Famous and Rare Cures, &c.

Falling-Sickness proceeding from the Mother.

THe Wife of Msr. *Polemarchus de Sumenes*, was many years together vexed with many Symptomes of the Mother, which resembled fits of the Falling-sickness; she tried many Medicines prescribed by many Physicians, but all in vain. At last, by the advice of a Woman, she took the flesh of a Wolf reduced into powder, and wore a piece of the same flesh salted continually about her; after which she was perpetually freed from the said Symptomes.

The 503 Observation or History of Famous and Rare Cures, &c.

A Tertian-Ague.

A Certain Emperick Cured many of the Tertian-Ague, by once purging them with a gentle purge, and afterward letting them blood in the beginning of their fit. The fit was restrained, and appeared very little, and afterward returned no more.

The 504 Observation or History of Famous and Rare Cures, &c.

A Wound in the Chest hard to Cure.

MSr. *Henry Bachaman*, an expert Physician of *Avinion*, told me, that the Son of Mfr. *Dorfan*, twenty years old, received a Wound in his Chest, penetrating into the Cavity thereof, which could not be Cured by many and divers Remedies applied thereunto, and continued three or four moneths, whereby the Patient was much emaciated and brought unto a Consumption. At last he advised him to suck the Milk of a Woman out of her Breast, and injections were made of the said Milk of the Wound; and with this only Remedy he was healed of his Wound, and brought from leanness into a good habit of body.

The 505 Observation or History of Famous and Rare Cures, &c.

Cholick Pains.

A Certain Citizen of *Narbon* told me, he had been subject to pains of the Cholick many years together, which was wont often to torment him, and that he was freed from the said Disease with the following Remedy taken once only, so that he never fell into the same any more, and that many others had been freed from the same Disease, to whom he had communicated the said Remedy. Now this Medicine is the Cork-stopple of an Hogshead of Wine, which has been many years so employed, and consequently is well drencht with Wine, it must be burnt to ashes, and a dram of the ashes taken with White-Wine, when the pain is Urgent.

The 506 Observation or History of Famous and Rare Cures, &c.

A Dropsie.

A Certain Credible Person told me, that he had seen many Cured of the Dropsie Ascites, or Bottle-belly Dropsie, by this following Medicine.

The whitest Flints must be gathered, which are found about the Brooks and running Waters, and being broken are transparent like Chrystal; these being heated red hot, were quenched

in White-Wine : the Patients took a Cup of this Wine every morning till they were Cured, which was performed in a moneths space.

The Salt of such flints Calcined, will, if I mistake not, work more happily.

The Salt of those Bugs called *Millipedes*, and in English Sows, is happily used by a famous Physician in this Cure, which he mixes with Julep and other Aperient Remedies, purging them first with the Jayce of our Country Orris, which if the Patient cast up, he takes him to be past Cure.

The 507 Observation or History of Famous and Rare Cures, &c.

Another Dropsie.

ANother Dropsied Person was cured only with the use of *Sal Prunellæ* in his ordinary drink for a moneth together, in which space all the water in his Belly was evacuated.

I conceive this Cure happened not only by reason of the Diuretick Vertue of the *Sal Prunellæ*; but because the Dropsie was caused by an hot distemper of the Liver, which was extinguished by the *Sal Prunellæ*, being a most potent Cooler.

Another Hydropick Person was cured with a Decoction of the Tops of Oaken-boughs, a Cup whereof he drank fifteen daies together.

The 508 Observation or History of Famous and Rare Cures, &c.

Kings-Evil.

A Bretaigner named *Daniel*, Thirty years of Age, a Country-man of a well-fleshed and strong body, had Kings-Evil swellings many years together, both about his Neck and under either Arm-hole, who being hated by all his Friends and Acquaintance, because of that loathsome Disease, betook himself to the Hospital of Charity in *Paris*, as unto the true Temple of *Æsculapius*, perswaded that he should there find a certain cure of his Malady; neither was he deceived by his Hope, for he was forthwith visited by the most illustrious M^r. *Gabriel Hardvinnus* of St. *Jacques*, ordinary Physician of that Hospital, who promising universal Remedies, applied a Cataplasme of the Leaves of wild Cucumer, called *Cucumis asininus*, upon the swelled parts, and prescribing him a thin Diet, and gently drying, the day following he ordered for him this following Opiate.

Take Turbith, *Hermodactyls*, of each two ounces: Of the Roots of both sorts of *Scrophularia* or Pile-wort one ounce, Roots of the greater *Angelica* two drams, Senna half an ounce, Scammony unprepared four scruples. Make all into a Pouder, and mix them with Syrup of Damask-Roses into an Electuary. Let the dose be two drams, adding to every dose *Mercurius Dulcis* twenty grains; The which being taken every other day fifteen times, and the Cataplasme being continually renewed, all the Knobs and Swellings went away without any Incision or Eradication; so that he sent the Man home safe and sound in the year 1641. This I had from M^r. de Leseq; Dr. of Physick at Montepier, sometime a Scholar of the foresaid Physician, M^r. de St. Jacques.

The 509 Observation or History of Famous and Rare Cures, &c.

Tooth-Ach.

Mr. Leseq; the Dr. of Physick afore said, told me, that he had seen the Tooth-ach Cured with Salt of Ash-wood, with which a Womans Thimble or some such tool is filled and applied to the Artery of the Temple where the pulsation is felt: and within a short time it makes a Knot in the Artery, whereby the Flux is intercepted.

The 510 Observation or History of Famous and Rare Cures, &c.

The Knotty Gout.

MSr. Chomel, the *Annonænsian* Physician writ me word that he lately saw a Gouty person full of Ulcers in divers of his Joynts, out of which more than two hundred stones had come bigger than pease, and so hard, that an Hammer would not break them. And which is strange to say, the Quittor, Sanious and Wheyish matter which did flow unto the Ulcers, after a little abidance in the part did presently unite it self, and grow into the hardness of a stone. He observed likewise this rarity in that Patient, that such outward applications as did good to one part, did hurt another, and contrariwise.

The 511 Observation or History of Famous and Rare Cures, &c.

Pain of half the Head.

MSr. Genton the younger, told me, that he had been troubled with a pain possessing the half of his Head for many years together; and after many Medicines tried in vain, he was Cured by the smoak of Amber, which he received in at his mouth and Nostrils for half an hour together, when the pain was upon him.

The 512 Observation or History of Famous and Rare Cures, &c.

A Rupture.

THe same person related that he was troubled with a Rupture in his Belly for many years together, and was cured by three Plaisters given him by a certain Emperick, each of which he had him wear nine daies with a Truss: they were all made of the same materials, and very stinking: and when they were taken off, all the matter was consumed, save that upon the Leather appeared a little powder, like to powdered Glass. By the use of the first Plaister no Effect appeared; after the second was laid on, the Urines came plentifully, and of divers colours; sometimes green, sometimes black, and sometimes with pain. After the twenty seventh day the three Plaisters being consumed, the parts seemed withered and lean, so that all the flesh and fat seemed quite consumed. By reason of the stink, I conceive this Plaister was made of Galbanum, which having an exceeding faculty to attenuate, was ab'e to dissolve and liquifie the Humors which fell into the part affected, and were perhaps congealed about the same, so that Nature might afterwards void them, partly by Urine, and partly by Transpiration.

The 513 Observation or History of Famous and Rare Cures, &c.

A Dropfie with Bladders.

ACertain Countrey-man being Hydropick, had an Imposthume arose on the right side of his Belly, which being opened, there came out an almost infinite number of little Bladders full of water, more than two hundred were reckoned, and that for the space of many daies together. And so he became perfectly Cured: By this Observtaion, that History related by *Schenkijus* is confirmed of a certain Hydropical Person, whose Body being opened after his Death, his Belly was found full of bladders of water sticking to the Peritonæum, and other parts.

F I N I S.



SELECT MEDICINAL COUNSELS.

Of the Renowned

Johannes Fernelius,

Doctor of Physick in the University of *PARIS*;
Chief Physician to the KING'S Majesty.

Being *Pick'd* and *Chosen* out of *Four Hundred Consultations and Advices* for Sick People; of which, these are the Flower and Cream.

The I. Counsel.

*Touching the Alopecia, or falling off of the Hair
of the Head.*

*The Disease is propounded to Fernelius, by another Physician in behalf of his Patient,
an Out-landish Person.*

A Young Man well flesht, and exceeding healthy, twenty years of Age, has often complained to me, that ever since he was an Infant, his head has been apt to be deformed by bald patches, where the Hair is fallen off: Having purged his Body, I applied such Remedies as I found commended by the Ancients, to cause Hair to grow; but all to no purpose. If you (Sir) have by long Experience found any thing very effectual in this Case, I earnestly beseech you again and again to communicate the same to me. Farewel, and have me still in your Love as formerly.

The Answer of Doctor Fernelius.

The truth is, these bald patches when they are not contracted by any sickness, nor through fault of any Humor, but from the first rise and seed, they hardly admit any Cure. For the faults of the Seed and Nature can hardly be corrected by any Art. But if there be any Cure, I suppose this must be it. Let us not meddle with purging nor bleeding, thereby to disturb
his

his body, seeing no Humor is cause of the falling of the Hair. But because the bald parts seem over-dry, it is good to loosen the Skin with emollient Fomentations, and to draw the moisture from the neighbouring parts thereunto, that there may be fit matter sufficient to make the hairs grow. First of all therefore, let the Fomentations be made of Marsh-mallow Roots and Lilly Roots, of Mallows, Violets, Pellitory of the Wall, Annis-seed and Fenugreek. Afterward, when the part shall seem softer, some Fomentation will be good that may draw in the matter made of Sage, Betony, Stachados, Maiden-hair, Southernwood, Nettle-seed and Mustard-seed boyled in Water, and a fourth part of White-Wine. Presently after the Fomentation, the bald places are to be anointed with Bears-Grease, which questionless is of very great vertue. When fifteen daies are over, let his Head be rubbed morning and evening with bruised Onions, till it become very red, and then smear Honey thereon in place of a Cataplasme. If during this course, the Hair break not out, in the last place must be applied an Ointment of *Thapsia* and Bears-Grease, which as it has a mighty name in the writings of the Ancients, so have I found it most efficacious in such cases. Now the true *Thapsia* is herewith us commonly to be had, a dram whereof will be sufficient to mix to an ounce of the Grease: If by vertue hereof this make not the Hair to come, the Case is in a manner desperate.

The II. Counsel.

Of Numness of the Joynts.

BY the long Beade-Roll of Symptomes wherewith this Gentleman our Patient is troubled, I conceive there are two chief causes to which they may be referred. The one is an hot distemper of the Liver and Kidneys, whereby the whole mass of blood is also heated, and the whole body lean and fallen away, by the adustion whereof, the Patient seems inclined to Melancholy. The other is a weaknes of the Brain, Nerves and Joynts, with a cold distemper, by which there is a great encrease of flegmatick Excrements which flow from the brain into sundry parts, and moisten the processes of the Nerves. Hence arises a numness which possesses almost all his Joynts, flowing into, and assailing sometimes one part then another. Which is not a little furthered by anointings with Quick-silver, long since immoderately used, whose nature is to cool the Brain and Nerves, and weaken the Joynts. These, truly, are the Rudiments of grievous Diseases to follow; as of the Gout or Palsy, or other Diseases of the Head, portended by the swellings and inconstant motions of his Eyes. For the prevention of all which, after a gentle purgation of Rhubarb, Senna and Diacatholicon, I conceive it will be good to let him bleed in the middle Vein of his left Arm, or if you would rather have him bleed in the right Arm it matters not much. And then his Diet is to be ordered which ought to be in manner temperate, so as not to cool or heat, nor moisten or dry overmuch. And herein a chief Care is to be had of his Wine, that it be very weak, and well tempered with Water, lest it offend by its heat, or work too much upon the Brain and Nerves, by its vapor and exhalation. For I have known many fall into a numness of their whole Bodies, onely by the immoderate use of strong and unmixed Wine, wherewith the Skin onely seemed to be affected without any fear of a Pallie. Also his whole body must be rubbed every morning, and his Head must be dried with bags of Salt, Millet, Bran, Annis-seed, Fennel-seed, and Bay-berries toasted or fried. And then flegm must be brought away through his Nostrils, either by Sneezing pouders or Errhines; that is to say, Liquors to be snuffed up into his Nose: to which purpose also it will be good for him to lie upon his belly, and to avoid lying upon his back, which causes Humors to flow into his Joynts and Nerves. A moderate exercise of all parts of his body alike will be good before meat, as that which strengthens the Nerves, Muscles and Joynts, and frees them from Excrements. After meals, it will be good to repress the vapors of his meat with Coriander-seed, or some convenient Poudre. And besides all these things which consist chiefly in matter of Diet, it will be necessary frequently to move his Belly, sometimes with a Clyster, which has a little *Hiera picra* in it, sometimes with a convenient Syrup or Pills. Let the Decoction of the Syrup be made with such things as are proper for the Liver, Brain and Nerves, wherein Senna, Agarick and Rhubarb must be infused, each in its convenient Dose. Let his pills be made of
Aloes

Aloes washed in the Juyce of Endive, with Agarick and Rhubarb. Every eighth day let him take the one or the other, but most frequently the Syrup, which will be best for him. In the intermediate days, give him some Methridate with Conserve of Bugloss, or of Acrons, or make him a peculiar Electuary of the Spices of Trion-Santalon and Diamargariton. When fifteen or twenty days are over, a dry Bath will be very convenient, made of a decoction of Roots or Herbs, good for the Brain and Nerves, that in the Sweats caused thereby, superfluities may be voided, and his Nerves and Joynts strengthened. And before these Sweatings, if the Disease be rebellious, and seem not sufficiently abated, by iterated purgations; the Patient must keep House about eight days, and use a thin Diet with a decoction of Lignum Sanctum, sweating twice every day: after which notwithstanding the foresaid vaporary or dry Baths may profitably be used.

The III Counsel.

Of a Catarrh, with pain of one side of the Head, and their Cures.

AS near as I can gather by your Letters, those flegmatick Tumors, which now for these many years have quartered upon your Face and Cheeks, do arise from a distillation flowing from the top of your Head into the said parts: and because the Catarrh falls so frequently into the same place, 'tis like the place it self has some infirmity which intices the fluxion to it. But there can thence be no certainty gathered, unless the seat and sort of the Disease be first thoroughly known. But that same Hemicrania or pain of half the Head, touching which your last Letter desires advice, is a distinct and different Disease, which requires a peculiar method of Cure. For the immediate cause thereof, is a vapour which arising from Choller flowing out of the Liver into the Stomach, does smite and twitch the Membranes of the Brain, yielding matter peradventure to the distillation. That same Catarrh with which by its oft returning you are so grievously afflicted, must be stopped with one dram of the Mass of *Pilula sine Quibus* (which are most proper both for your Age and Temperament) especially if for eight or ten days last past, you have taken no medicine against the Catarrh. The next day after, bags as hot as can be endured must be applied to the crown of your Head being shaven, morning and evening before Supper: which may draw the matter out from thence in most parts and resolve the same, and they must abide on for the space of half an hour or thereabouts, and be continued for certain days, till the fluxion be stopt. Moreover, an Astringent Plaister to stop the passages must be applied to the Temples, or to those parts through which the humors go; which must be renewed every other day, and not taken away till the fluxion cease. And if it shall no longer run down by the Mouth and Cheek-bone, yet that the Gums and inner parts of the Mouth may not so easily receive the fluid humor, let them be washed three or four times a day, with an astringent and strengthening Gargarism. And because all the matter of the Catarrh is not so soon dried up, some portion of this Gargarism must be drawn by little and little through the Mouth and Nostrils, through which the cavity of the Brain may be purged, morning and evening before Supper. Keep in the mean while a fitting diet: live frugally, use meats of good Juyce, and thin Wine very well allayed with Water, partly because of the cold distemper of your Brain, and partly because of the hot distemper of your Liver. Abstain from immoderate drinking, broths and other moist meats, the Wind, the cold and the rain; exercise your self moderately in the morning long before dinner. When you go to bed cause your Arms, Back, Thighs and Legs to be rubbed downwards. Let your Belly be always soluble, either of its own accord, or by artificial means, as Clysters, or Suppositories, least your body abound with excrements.

Here are the descriptions of your Medicaments.

Take of the Mass of Pilulæ sine Quibus two scruples; of Pills of Agarick one scruple. Work them together anew with Syrup of Stachados, and form seven Pills.

Make the usual bags of Annis-seed, Fennel-seed and of Bay-berries, each two drams; of Millet half a pound. Common Salt six drams, apply them to the crown of the Head.

Also, *Take Unguentum desiccativum rubeum half a dram; Mastich powdered one dram: make them into a Plaister and apply it to the temple of the pained side.*

Item, *Take Sage one handful, Mastich bruised half a dram, Harts-horn three drams; boyl them*

them in Wine and Water, of each a sufficient quantity. Then strain it, and let him therewith wash his Mouth and Gums, three or four times in a day.

Make him the ordinary Head-Purge.

Give him the ordinary Clyster.

The IV. Counsel.

For a noble Matron vexed with the Tooth-ach, translated out of French.

THat same Tooth-ach which does so extreemly torment you, arises from a cold distillation, which falls from the left side of your Head into the Jaw-bone of the same side, and the nerves of the Teeth, and sometimes as far as the Shoulder-blades. To prevent the same, first the flux of Rheum must be stopped, and the cause thereof totally removed. And that may be done by these Pills taken once a month; or with this potion, if it be Summer, or the season hot. The day following your first purgation, your head being shaven must be rubbed with these seeds inclosed in a double cloth, which must be done the space of 14 or 15 days: Which being over, your Body must be purged as before. Then the day after, your Head, the left side especially must be fomented with a little *Aqua Vitæ* every morning, the hair being sprinkled after the fomentation with the following powder. Mean while care must be had of your teeth, which being wiped three or four times a day, long from your meals, hold in your mouth and chew this Masticatory, which is to draw down the Rheum from the whole body of your Brain, but especially out of its ventricles by the funnel into your Mouth and Palate. Moreover, let your Gums be washed oft every day with this decoction. Mean while use meats of a good juyce, and live soberly; drink not between meals; At meals drink moderately; abstain from moist things; keep the cold from your Head, Teeth and Feet: The Remedies hereunder prescribed, must be long and diligently continued, because the disease is inveterate.

Take of the Mass of Pill Cochey and de Agarico, and Assajereth, of each one scruple: make seven Pills.

Take of the Waters of Sage and Betony, and White Wine, of each one ounce. In which infuse of choice Rhubarb, Agarick trochisked, of each one dram. In the expression dissolve Diaphanicon two drams; Syrup of Maiden-hair half an ounce. Make all into a purging Potion.

Take Millet one pound; common Salt half a pound; Annis-seed and Fennel seed, of each two drams. Bay-berries bruised one ounce. Make all into a very fine powder; sprinkle it on her shaven Head.

Take Pellitory of Spain, Staves-acre, Ginger, Cardamoms, Styrax Calamita, of each half an ounce. Make a most subtil fine powder, for the use aforesaid.

Take Mastich one ounce; Pellitory of Spain half an ounce; Cubebs two drams. Incorporate them in a solid form with Honey of Rosemary flowers: and make a Masticatory.

Take of small Sage one handful; Myrtle leaves half an handful: Mastich bruised half an ounce. Boyl them in Fountain water and white Wine, of each half a pint.

Strain them, and reserve them in a Vial for to wash her Mouth.

The V. Counsel.

In a Catarrh and moistness of the Brain, with a bad Disposition of the Bowels.

THE Brain being naturally cold and weak is over-whelmed with great Incomes of Excrements, which, their natural course being stopped, rush into sundry parts preternaturally; Into the Optick Nerves where by the dimness of the Patients sight they threaten blindness; into the Jaws and Teeth, whereupon they often cause pains, as also those which fall upon the

the Neck and Shoulder-blade. Also a portion of the said Excrement remaining within brings Ringing in the Ears, and heaviness of the Head, and renders all the functions of the Brain lazy. There are also other Symptoms proceeding from the fault of the Liver and nutritive parts; Heart-pain or heart-burning, and frequent inclination to vomit, a filthy colour of the Face and whole Body, largeness of the Belly, a bloat and somewhat swollen habit of the Feet, Face and whole Body; which foreshews a Cachexy. None of which Symptoms can come without the obstruction and impurity of the Bowels.

To help all these Infirmities together, a slender Diet must be prescribed twenty or thirty days together, in which the Patient must drink nothing but a Decoction of Guajacum, and that simple, and not very strong of the Wood; but of another stronger Decoction he must take at five a clock in the morning, and at four in the afternoon, so that he must dine at four a clock in the morning, and sup at seven at night. And then his meat must be sparing, dry, and of good juyce. His drinks therefore shall be thus ordered; this Strong Decoction after our usual form of a simple Decoction; the more dilute Decoction he shall use for his ordinary drink at meals, and to quench thirst at other times. This kind of diet, though it attenuate the Humors, and digest a portion thereof into sweats, yet can it not perfect the Cure, nor restore health, but other Remedies must be used in this order:

Take Betony, Sage, Hops, of each one handfull. Cordial flowers, of each one pugil; Senna Leaves, three drams. Make a Decoction for one dose; in the strained Liquor infuse Choice Rhubarb, four scruples. Agarick Trochisked, one dram: Cinnamon half a dram.

In the strained Liquor dissolve half a dram of white Sugar, and make a potion: let him take it when he begins his Diet-drinks, and repeat it once in eight daies.

If at any time it work but faintly: one dram of Diaphænicon may be added.

In the intermediate daies if he shall be at any time costive, he must have an Emollient Clyster. As soon as ever Sweat shall begin to break out, every morning his shaven Head shall be rubbed with these Bags very hot.

Let the common bags be applied exceeding hot in his sweat.

Item, Take Nigella Romana, Styrax Calamita, Benzoin, of each one dram: Mace, Cloves, of each one dram: make all into a gross powder for a fume; let him use it twice a day after his Head is wiped and dried. Also daily in the morning and before Supper, let him use the common Head Purgers. [Masticatories so called, it seems.] which if they shall not bring away Rheum enough, half a dram of the Root of Artanita may be added. Let him persist in the use of these things till he be perfectly well. And lest for time to come through Intemperance or Carelessness he should fall into the like Diseases, every moneth at least his Body must be purged with this Syrup which I have fitted for all these Infirmities.

Take Roots of Smallage, Parsly, Fennel, and Capers, of each half a dram; of Endive, Maiden-bair, Agrimony, Dodder, Ceterach, Betony, Sage, Stachados, Marjerom, of each an handfull: Cordial flowers, Epithymum, of each one pugil. Make a Decoction to twenty drams: Gummy Turbita six drams: Ginger two drams: Choice Cinnamon half a dram.

Let them boyl a little after they have been infused, and press out the Liquor, and dissolve therein one pound of white Sugar. Make a Syrup perfectly boyled, not clarified. Let him use it once or twice in a moneth.

The VI. Counsel.

*Of a distillation into divers parts, with a diseased Spleen,
for a noble Virgin.*

There were in this Virgin evident tokens of a Distillation which fell from her Head, especially the left side thereof, into her Side, Lungs, and Neck behind her Ears, and into her left shoulder blade, and into sundry inferior parts, with wheezing, and shortness of breath, which is a beginning of the Piffick. Hereunto is added the pain of her Stomach, which seems to proceed rather from some fault of the Spleen than of it self. For I have a great suspicion of that Bowel, though peradventure it may communicate its illness to the Liver, and be the original of the infirmity of the left side of her head. Her left Hypochondrium must therefore be observed and felt.

The Cure of these intertwined Diseases must be endeavoured by frequent Evacuations, which must sometimes be accommodated to the Head, sometimes to the Bowels. In the last Quarter of the Moon before Head-ach comes, let her purge with these Pills.

Take of the mass of Pill Cochy, one scruple; of Pills sine Quibus, two scruples. Make five Pills.

For three or four daies after, her Head must be rubbed in the morning with bags of Miller, Salt, Annis, and Fennel-seed, fried in a Frying pan. Then also the Rheum shall be drawn out at her Mouth and Nostrils, to move the threatening distillation; And afterwards her Head must be dried and strengthened chiefly by outward Applications and Fumes: and that Humor which is already lodged in her Lungs must be fetcht out by pectoral Medicaments, but especially with Syrup of Hyssop and Maiden-hair, sometimes by way of Lick-pot, otherwhiles as a Julep being mingled with convenient Liquor, that so some consideration may be had of moving her Courses. Also other Syrups pectoral may be repeated, which among other things shall contain the Roots of Elicampane, Polypody, Scabious, Hyssop, Savory, with Dates, Figs and Raisins.

The Narration of the foregoing Disease written by Claudius Melinus, desiring the Advice of Fernelius.

A Virgin three and twenty years of Age, low of stature, of a compact and thick habit of Body, is vexed with these Symptoms. For this five or six years, three or four days before the last quarter of the Moon, she has an huge pain in her Head, both before and behind, but chiefly on the left side. She feels also a very great pain in her Stomach, when she eats but a little more than ordinary, or when she eats cold meats, vulgar Herbs, and moist meats. She Wheezes in drawing her Breath, and is short-winded in cold and moist Weather. She is pained all her Body over, but especially that part which reaches from the lower part of her left shoulder-blade, to the top of her left Dug. She is vexed for want of rest, nor does the morning bring her to sleep. She had once the palm of her hand all scabbed. Her body is bound, and her monethly purgations do not keep a constant course. For sometimes they come not till three moneths are over, and sometimes after six weeks, and that sparingly.

The VII. Counsel.

Of the Falling-Sickness,

AS Lawyers from the Knowledge of the Fact understand what is Law and Right in the Case, so must we fetch the whole way of our Cure from the right knowledge of the Disease. Not long since I was told of a kind of Fainting, expressed by uncertain signs common to other Diseases:

Diseases: which I conceived to intimate a Syncope or Swooning. But you avouch by undoubted signs, and inform me, that the Disease is the Falling-sickness arising not properly from the Brain, but by Sympathy with the Stomach, and that it has its certain time of coming, and that they are commonly in the Wane of the Moon. Things being thus, the Cure must be thus undertaken: Six or seven daies before the coming of her fit, she must have a Clyster, which besides other convenient things, must have in it half an ounce of *Hiera Picra*, and half an ounce of Diaphænicon. The very same day let him feed very sparingly with thin Diet, and prepare the Humor to be purged with Oxymel Simple or Compound.

The day after purge her with the Infusion of Rhubarb and Agarick, of each one dram: in which two drams of *Hiera Diacolocynthidos* must be mixed. Or if that Medicine be not to be had with you, dissolve therein of *Hiera* simple and Diaphænicon, of each one dram and an half. But you indeed your self considering the strength of your Patient and greatness of the disease, may better determine of the Quantity of the Medicaments.

The third day let her cease from all Evacuations and other Medicaments, unless peradventure you may think fit to give her a dram of the best Methridate.

On the fourth day, vomit her, which is a most efficacious, and most proper remedy in these Diseases, in respect of the waies to be purged, the Humors having a long time stuck fast in the Stomach and neighbouring parts.

Now that will be most effectual which is made of two scruples or one dram of *Asarum* Roots, dissolved in Hydromel, or a Decoction of Raisins, with a little Cinnamon and Syrup of Violets.

The following daies till the suspected time of the fit be over, give her every morning four scruples of this Opiate.

Take Conserve of Rosemary and Betony flowers, of each one ounce. Old Methridate, two drams and an half. Venice Treacle, four scruples. Mistleto of the Oak, Peony seeds, Mans Skull powdered, of each two scruples. Mix them. Let her take it by it self, or in Betony Water. If you can get male Peony, you shall find nothing better, either the seed or the Root gathered in the Wane of the Moon, one dram in weight. And all these things must not be once only used, but three or four times, near the time of the Fit.

The VIII. Counsel.

For a Boy Eight years old, long since taken with the Falling-Sickness and loss of Memory and Reason, in a manner.

Take Leaves of Betony, Rosemary, Marjerom, Stæchados, Sage, of each one handful. Of the Cordial flowers, of each a pugil. Boyl all in two pints of Water. In the strained Liquor steep all night Epithymum two drams. Senna four ounces; Ginger two drams: Choise Cinnamon four drams. In the morning, boyl them a little and press out the Liquor, wherein dissolve of the best Honey and whitest Sugar, of each half a pound. Make all into a Syrup indifferently boyled, that is, to an indifferent height. Let him take once in a week one ounce and an half, with the Water wherein Betony has been boyled.

Item, Take Conserve of Bugloss and Rosemary flowers, of each one ounce. The best Methridate and Treacle, of each half a dram. Seeds and Roots of male Peony, Mistleto of the Oak, Mans Skull, Harts-horn powdered, of each two drams. Mix all into an Electuary with a sufficient quantity of Syrup of Violets. Let him take one dram or four scruples, three or four mornings together after his purgation, three or four hours before Dinner. Let him drink no Wine at all, and let his drink be simple water, in which Harts-horn has boyled with a little Ginger. Let him abstain from Fruits, especially such as will not keep, from milk and all made thereof, from Beans and Pease, and Fishes.

The XI. Counsel.

For the Falling-Sickness.

THis most grievous Disease of the Falling-sickness arising from a strong and inveterate cause in an impure and now ill-habited body, will hardly admit of any Cure. Moreover, the Patient is so weak, that no part is freed from disorder excepting the Lungs. His Head is vexed with pain, Swimming, Melancholy and the Falling-sickness, his Bowels are exceeding impure, by which means the rest of the Body is infected; his Urines are thick and gravelly, arguing an obstruction and heaviness in his Kidneys. Nor is his old pain in his Thigh as yet gone.

In so great a Concourse of Diseases the Cure must begin with purging, which because it can scarce safely be performed by Purgatives, we must endeavour to do it rather by a thin drying Diet with Guajacum. Let him therefore first be purged either with the Syrup which I formerly prescribed him, or by a Medicine of the Infusion of Rhubarb and Agarick, with two drams of Diaphænicon.

The third or second day after let him begin his thin Diet, in which let him feed sparingly only on roast meats; and let him drink a simple Decoction of Guajacum Wood without the Bark; that he may the better accustom himself to it. Let him sup at seven in the Evening; at five or six in the morning, and again at four in the afternoon, let him drink a Cup of pure and strong Decoction made of the Wood and Bark of Guajacum and Polypody, with Sage, Betony and Stechados: and this in the first daies shall be instead of a Preparatory Apozem, nor let him be forced to sweat.

When six or seven daies are over, and the Humors thus prepared and stirred, let him be purged again with the former, or some like Medicament, or to which Senna and Epithymum are added.

And then let him begin to sweat with the Decoction aforesaid, that the inner parts of his Belly being Evacuated, the upper parts may consequently be disburdened of Superfluities.

When the Sweat shall liberally Evacuate and putrifie his Body, so that it shall become extenuated and leaner, it will be time to use Topical Medicaments.

And then attenuating and dissipating Fomentations must be applied to his Thigh, which was the first cause of all his weakness, and after the Fomentations a Cataplasim must be applied of the crude Roots of Briony and wild Cucumer, with Mustard-seed and the pulp of Figs mingled together in a convenient proportion; which though I should expresse to a Novice, I need not to you. If these things shall seem to you not to have done enough towards the Cure, at last a *Phanigmus* must be applied of Leven and Cantharides, till the Roots of the Disease be plucked up. For you shall do more by these strong drawers, than with a very long Ulcer or Issue, which only receives the Humors, but does not draw them.

And then you must also open the Hæmorrhoid Veins, either with the juyce of Mercury leaves or of Figs; or with a Suppository of Hiera Simple, with the Root of round Birthwort, but so as an Emollient Fomentation be premised. Or if they cannot be sufficiently opened or will not run, it will be good to open the *Vena Saphena* in his left Foot, and to let him Bleed as his strength will bear.

While you apply these Topicks to the Cure of his Thigh, you may likewise set about the Application of Topicks to his Head. And in the first place *Errbina*, which may strongly draw snivel out of the Brain. Then use Frictions of his Head, with bags made of discussing Seeds, Millet and Salt, fried. After which his Head being shorn to the Skin, lay on a Plaister of Roots of Florentine Orris, with Hermodactyls and Mustard-seed: which being powdered must be made up with Melilot Plaister, and a sufficient quantity of Turpentine. And afterwards use a stronger, if need require; and to the same purpose Cupping-Glasses, sometimes without, sometimes with Scarrification may be fastened to the hinder part of his Head. And you must persist in the use of these things, with the foresaid Diet of Guajacum, till both the
inward

inward and outward parts of his Body shall appear sufficiently cleansed from bad Humors.

Setons in the hinder part of his Head, and Issues in the Coronal Suture have not that drawing Faculty, as I said before; nor can they as I find by experience perform that which the other Remedies are able to do, and they many times most miserably torment the Patients to no purpose.

When the whole body and all its parts have been thus provided for, if any suspicion of the Falling-Sickness shall seem to remain, those Medicaments may seasonably be used, which are reported by their whole substance and hidden properties to cure the said Disease.

The X. Counsel.

*For dimness of the Eyes, in the Wife of
M^r. de Riou.*

THe dimness of both the Eyes, and blindness thereby threatned both by reason of the remaining Ophthalmia in the right Eye, and that which has since seized upon the left, have their first efficient Cause in the Brain. For therein store of Excrementitious Flegm is wont to be bred and stored up, and that by reason of the cold and moist distemper of the sick Gentlewoman, and by her immoderate way of living. For as that is the chief cause of the Gout, when it goes into the hinder parts; so when it flows into the former parts, and through the Optick Nerves, it breeds in the Eyes such Symptoms as these, hindring the sight. For the dilatation of the Pupilla alone without the cause aforesaid, is not sufficient to produce blindness.

And here I am at a stand, doubting where this obstructing Humor, which is the *Causa Continens*, and immediate procurer of this Disease, is lodged: Whether in the Optick Nerve, or under the inner parts of the Pupilla, in manner of a Suffusion, or whether it be poured out externally upon the Cornea of the Pupilla, in form of an Albugo. For these things are diligently to be considered and distinguished, without which the Cure, if any be to be hoped, cannot be performed. And therefore I desire to be diligently by you certified touching the premisses. If nothing can be perceived in the Eye before the Pupilla, the cause is in the Optick Nerve, which is perhaps obstructed: for there is no suspicion that the Faculty of Seeing is hurt, or that part of the Brain wherein it is lodged.

If any obscure thing be seen before the Pupilla, it must be considered, whether it lie deep under the Coats, or outwardly about the Tunica Cornea: the former is a Suffusion, the later an Albugo.

But in the mean while, till we shall be certified of these things, a general Cure is to be begun, which is alike common to all these infirmities. First a drying and attenuating Diet must be enjoined, so that she eat no moist, supping or liquid meats, but only roast and dry, and that very sparingly, only so as to preserve her strength. Let her abstain from Wine twenty or thirty daies; and let her drink be a decoction of *Lignum Vita* without any other addition. And if with another stronger and sharper Decoction, at five in the morning, and four in the afternoon, you shall endeavour to bring sweat out of her whole Body, especially out of her head, you shall do much towards the Cure.

On the third or fourth day of this Diet, when the Humors shall appear to be in agitation, she must be purged with *Pilula Lucis* and *Sine quibus*, or by any other that you have found by experience more agreeable to her body.

These Pills must be repeated every eighth or tenth day, nor must she sweat on that day.

In the intervenient daies, if she be Costive, let her have an Emollient Clyster.

Every morning, chiefly towards the End of her Sweat, her Head being shaven or polled, Bags must be applied of Millet, Salt, Annis and Fennel seeds, and Bay-berries fried, which being in Bed let her endure on as hot as may be for the space of half an hour, that by them the clammy Humor of her Head may be drawn forth, and the Brain, the Fountain of all her Infirmary may be strengthened more than the other parts. For in this Case the Bags are more effectual;

effectual, than either Plaisters or Sinaphysmes though never so hot.

The Bag being taken away, cover her Head with dry Tow, which must be smoaked with Storax, Benjamin, Cloves, and such like, a little before Dinner and Supper. And at the same time Flegm must be drawn out of her Head by chewing Masticatories made of Mastich and Pellitory of Spain: or by a Gargarism made of some convenient decoction, dissolve in a pint whereof a dram of Pellitory powdered. These things must be constantly used in the mean while till I can more certainly know what the Disease of the Eye is, whether an Albugo, a Suffusion, or an Obstruction of the Optick Nerve. For the weakness cannot spring from want of Spirits, or dissipation of her natural strength.

Which when we shall understand, we shall endeavour our utmost to effect the Cure.

The XI. Counsel.

*For M^r. Laftier almost blind with an Obstruction of his Optick Nerve,
being sixty years old.*

THis same Hinderance or depravation of sight, which threatens either a suffusion or blindness has for its Cause, not only a thick Vapour, but also a thick and clammy Humor, which slipping out of the Brain into the Optick Nerve, does not yet fill the whole capacity of the Nerve. This Humor if it shall fall before the Chrystalline Humor and the Pupil, it will cause a Suffusion: but if it continue where it is, and encrease and grow thick together, it will cause only a blindness wherein nothing can be seen amiss in his Eyes. And therefore we must hinder any more matter from flowing thither afresh, and that by a good Diet, which may moderately nourish his body, but not moisten the same, nor fill it with excrements.

Twice or once at least in a moneth, he must purge with *Pills sine quibus* and *Lucis majoris*: and in the intermediate days, if he be bound with Pills of Aloes.

His Head must be every morning dried with Fomentations of Salt, Millet, and discussing seeds Fried.

Frictions also must be used towards the hinder part of his Head, downwards which will be very profitable.

Flegm must be frequently drawn out of his Head by Apophlegmatisms; Errhines are not so safe, Sneezing-pouders stark naught, because they turn the Course of the Humors to the place affected.

By these therefore, and such like means his Head will gather few excrements, and they will be brought away for the most part through the natural passages.

The other intention of the Cure is, that the Humor which has long since gotten into the Optick Nerve may either wholly, or as much as is possible, be drawn out, and brought back to the original of the fluxion. Which though it be an hard and very difficult task, yet we must try nevertheless what we can do.

Therefore we must often apply Cupping-glasses, especially the day after his purgation, and some days after that, to the Hinder part of his Head, on each side, at the original of his Neck, without scarrification.

He must be ordered to lie on his Back; and so lying it will be good sometime to shake his Head gently, that the fast sticking Humor may be removed out of its place.

I like not of those Setons, as they call them, of the Hinder part of the Head and Neck, having observed that they do little good, and many times great hurt.

But Experience has taught me, that the most effectual and safe Revulsion is from the Optick Nerve into that Cavity, which is in the root of the Ear, and in the Connexion of the Jaw-bone behind the lowest part of the Ear. For through that runs a branch of the Jugular Vein, which enters the Optick Nerves on both sides, and accompanies them as far as to the Eyes. Thereupon therefore a small Plaister must be applyed as big as a Mans nail, either of that sort which consists of an equal portion of black Soap and common Salt beaten. Or of that which consists of Mustard-seed and Cantharides, of each one dram. Strong leaven one ounce. But these things must

must be prudently used, and with the greatest Art Imaginable.

But if it be feared that the humor to be revell'd, is not sufficiently inclined to move, it must be prepared with an Emollient and attenuating Fomentation of a decoction of Marsh-mallows,, Vervain, Eyebright, Rue, Fennel and Fœnugreek-seeds.

With the vapour of this decoction applied with a soft and tender Sponge his Eyes must be Fomented about the Evening, especially whilst the Plaisters stick under his Ears, that it may at least by its warmth soften and make thin the peccant humor.

But it will be in vain to use Eye-Salves, because their Vertue cannot penetrate to the place affected.

Nevertheless he may profitably eat Fennel-seeds oftentimes, or after meals take a powder made of Coriander, Annis-seed, Fennel-seed, Eyebright, Liquoris and Cinnamon: for the vapour and steem of those things is carried out of the mouth and Stomach, to the fore part of the Eyes.

I know some will in this case command and commend exceedingly the decoction of Guajacum, which nevertheless without the Remedies aforesaid, will be in vain, and do no good at all,

The XII Counsel.

The Answer of Fernelius to the Letters of M^r. Du Perat, a Gentleman of very great Note in the Emperours Court, or of Beucherius his Physitian.

YOUR Letter to *J. Silvius*, most learned *Beucherius*, did sufficiently acquaint me with your remarkable Learning, and now at last I am confirmed in the opinion thereof by your Letter to my self, wherein also you declare your ingenious and extraordinary affection to me. Least therefore you should have suspicion of my writings or perscriptions as not safe enough, I have, not presuntorily, but very diligently read over and perused your former Letter to *J. Silvius*, wherein there being many things with prolixity of words obscurely delivered, you seemed to discourse not onely of the Gout in the Feet, but sometimes also of other Joynt-pains, whose original you attributed sometimes to the Brain, sometimes to the Veins, of which if you now doubt when you ask my advice, do you not seem to give me also an occasion of doubting? But, if so be we are now both of a mind, that these pains spring from Rheum, and that it falls down from the Head into the Joynts, the Gentleman need not doubt or make any scruple to follow that Method of Cure, which you long since did usefully prescribe, and which in my Letters I have very much commended, and imitated exactly, though with other kind of Medicaments, as every one has his own way of Practice, and every one is commonly wont most of all to commend those things, which he himself has happily experimented. Howbeit, I make no question, but those things which you have prescribed will do good, if the Patient persevere in the use of them. But I come now to your Queries.

If the Gentleman shall resolve to use the decoction of *Lignum Vitæ*, it can do no hurt, in the Winter, sometimes but not always to mingle therewith a like or less quantity of weak Wine. And here desire you to take notice that there are many kinds of this Wood, or at least many degrees: nor must you use that, which makes a sweetish decoction like Whey, but that which is aromatical, the decoction whereof tickles the Palate and Throat with its biting Acrimony. When he shall take that second and medicated potion of *Lignum Vitæ*, if he sweat, let him keep House that day, and not commit himself to the coldness of the Air, lest his Skin being open and loose, the cold get in, and smite and vex his Nerves. When his fit begins, and he feels the first grudgings of pain, he must be exquisitely purged, not expecting any concoction. For the humor when it flows into the Joynts, is thin and watery, which is easily purged out. But when it has quartered sometime in the Joynts, it grows thick, and will hardly follow the Medicament; nor is it those Humors, which *Hypocrates* bids us not to purge before they be concocted. These are perhaps those things which you (most learned Sir) do admire as paradoxes, which you desire me to explain, and to answer your arguments to the contrary. And though few Physitians are wont to render a reason of what they say or advise: yet because you desire the same, after so ingenious and fair a manner,

ner, least I should seem to have spoken rashly and at adventure, I shall briefly explain my self in this case, which nevertheless would require a large discourse. Now I shall insit upon all your objections, not intending to teach and inform you, but to answer to your questions. In the first place therefore you say the cause of a cold Gout, is thick and clammy Flegm. And that, I say, being simply and absolutely understood, is false; for at first it is thin and watery, such as sometimes runs out at a Mans Nose by cold-taking; nor being thickened would it easily fall down and slide into the Joynts, and external parts of the body, but would stick by the way. But, indeed, in tract of time, by force of heat, it will become thick in the Joynts, and as *Galen* says by you cited, cannot be resolved but in a long time. And at length, if it be let alone, it grows into an incurable stony hardness, of which the Poet.

Solvere nodosam nescit Medicina podagram.

*When Gouty Humors into stones convert,
They fear the Doctors, and despise their Art.*

You must therefore distinguish the times of Diseases unless you will make Authors contradict themselves. Of the differences of this flegm, I have written according to the judgment of best Physicians, in my fifth book of the natural part of Medicine. Afterwards not allowing that the Brain is the spring of this Disease, you ask me why every internal cause which moves a Catarrh, does not produce the Gout? You should likewise have asked, why every distillation from the Brain does not cause a Cough? You know (worthy Sir) that every distillation holds not one and the same course, also several Humors encline several ways. And as some parts are weaker and looser than others: so the Humors accordingly run this way or that way into this or that part. Moreover you tell me, there is no passage betwixt the Brain and Feet, by which the Humor might fall thither; and the more to prove what you would have, you gather that it can neither come in by the Spinal Marrow, nor by the Nerves. Which I confess truly, and I cannot believe any one is so simple, as to think of such passages. Yet you say the Brain may communicate its Excrement to the Veins: seeing you are very skilful in Anatomy, I would have you shew me the way by which the Excrement can go back out of the Ventricles of the Brain (which *Galen* in his book *de usu partium*, tells us were made to receive Excrements) into the Veins. Can the Excrement return upwards from those inmost Ventricles into the Veins again? But if it sometimes fall into the Stomach, and obstruct the Liver, that is nothing to our purpose. I conceive there is no need of these ways or passages, for a distillation in the Joynts, but that some come out of the Ventricles of the Brain, others out of the external parts, and slip down even by the Neck and Shoulders, which gaining the parts under the Skin which are loose and being for the most part thin, it slips along leisurely without sence of pain, till it stop in the solid and more compacted Joynts, and abide there, whose Ligaments, Tendons, and Membranes it stretches, not without pain. This I perswaded my self to be the cause of the cold Gout, which being ill explained, most Physicians have left it as incurable. But the Authority of the Ancients shall never fright me from making Inquisition, neither in these, nor in any other Operations of Art, though I have not hitherto neglected any, no not the least Writer: yet I find by experience I have profited more by my own Inventions than by them. And now I return to you, where you endeavour to perswade me, that these flegmatick Excrements, do fall out of the Veins: and therein (you bid me be plain) you are many ways overseen. For you never saw any such Flegm drawn out of the Veins by Medicaments, but what ever flegm is brought away by purgers, it comes all either from the Brain, or the Stomach, or the Guts, and it causes the Cholick, not does that which in the Cholick or in Feavers is vomited, come out of the Veins into the Belly, but was collected in these places. You are also mistaken when you say, that you have seen much thick Flegm, and not unlike that which is bred in the Stomach, come out of a Vein with the blood, in Phlebotomy. For that some whitish matter which is sometimes seen to float in the Chyrurgeons Porrengers and grows together by vertue of the Fibres, is called blood, flegmatick blood, and such as abounds in *Leucophlegmatick* bodies. I verily, among vulgar Errors, do reckon this for a most grievous one, that in all Feavers, and whatever other Diseases, they make all faults of the Humors to be in the Veins, and there can be no place found in the body for bad Humors besides; and when

we discourse of Humors, they never think of superfluous Humors, but understand all, only of these Humors mixed with the blood in the Veins. But of these things I shall find a time to speak more largely. And as for those other things you say, how that out of the Veins Mouth, many matters Issue, either into the Skin or other outward parts of the Body which are weak, which cause the Scab, the Itch, Pustules, Inflammations, and sometimes hot Gouts: all this with you I acknowledg and confesse.

Of Joynt-pains, for the same M^r. du Perat.

What I am able to understand touching the Disease of the sick Gentleman and its cause, and concerning the prevention and Cure thereof, is as follows. The Age of the Patient, being sixty years, his temperament cold, the habit of his body corpulent, plenty of clammy and thick flegm in his Brain, Stomach and Guts; finally, many other signs, which I have collected up and down out of the Writings of others, do demonstrate, that this Joynt-pain we speak of proceeds from a cold distillation, rather than an hot, which the Nature and long-fasting of the pain does confirm: but into what Joynts the Humor chiefly falls, is not expressed. Though the knowledg thereof is of no small moment towards the Cure. Nor do I find that any notice is taken, whence that cold and flegmatick distillation does fall into the Joynts, which notwithstanding is the chief point of the Cure, to which all the Counsel of the Physitian is to be directed. I verily can never believe, either that the thick flegm which is purged away by Stool, or that which flows into the Joynts, can come out of the Veins. For both these Humors are sincere and Excrementitious, such as is no where contained in the Veins; but the former, which comes out of the Stomach and Guts, is bred there by the Nature of the Place: and the latter falls into the Joynts from the Brain and the whole Head, whose proper Excrement nevertheless it is. These things being thus declared, I hasten to the Cure. As soon therefore as the Patient shall be freed from his present pain, or at least two or three moneths during the time of his Health let him accustom himself to this Diet. Let him feed on Meats of good Juyce, Capons, Pigeons, Partridges, small Birds, young Hares or Leverets, Veal, Mutton, and such like, always roast, never boyled, and avoid all suppings and all Fishes and Cheese, Pease, Beans, and all Fruits, especially Summer Fruit that will not keep. He may conclude his Meals with Raisins of the Sun, or Marmalade of Quinces. For thus by a dry and moderately warm Diet, we must take care that little or no flegm breed in his body. And to that end, it will be also good, to take an hour or two before Meals, one Lozenge of Aromaticum Rosatum according to the description of *Gabriel*, or a little preserved Ginger; let him take heed of hotter Medicaments, such as Diatrion Pipereon, Diagalangā, Diacalamintha, and such like: for they hurt by their heat, nor can they correct the Errors of his Diet. But after Meals, let him suppress the Vapours of his Stomach with this powder.

Take Coriander seed prepared two drams; choyce Guajacum, one dram; choyce Oriental Pearl one scruple; Sugar of Roses two ounces. Make all into a Powder; let him take a spoonful after his meat. Let him Eat twice a day, and that very sparingly, and at such distances of time as may suffice for perfect concoction. For it will be good for him, sometimes to endure hunger, for the digestion of crudities. Let his drink be white Wine or Pale Claret; each moderately allayed with Water. Small Beer is good for one draught, but let him not drink thereof immoderately, and also all Water, if it be seasoned with much Spice, lest he encrease serous Humors, which he is apt to breed. He must drink sparingly, not above thirty ounces in a day. And if he delight to have some other kind of drink, that is fittest of all for him which is made of Lignum Vita, and cuts Flegm, makes it thin, and scours it off the parts; and it opens obstructions better then anything else, and digests them in the remotest parts; it dries up and consumes many crude and Superfluous matters, to which the force of other Medicaments cannot pierce, so that it is much conducing to the health of this Patient. Moreover, he may drink as much as he will of this drink; Now it may be made very grateful after this manner:

Take Chips or shavings of Lignum Vita half a pound. Infuse it in six pints of luke-warm Water twenty four hours. Then boyl it to three pints putting in towards the conclusion, Raisins stoned two ounces; choyce Cinnamon three drams; Cloves one dram; strain out the Liquor. Let him use it as meat instead of Wine, or at least for his first draught in place of Beer.

When his Belly is costive, let him use a Suppository or an emollient Clyster. Also it will be good to give him this Clyster, twice a week, which scours off thick flegm, and draws it forth by stool.

Take Roots of Marsh-mallows and Elicampne and Polypody of the Oak, of each half an ounce : Centaury, Wormwood, Rue, Chamomel flowers and Melilot flowers, of each one handful : make a decoction to a pint : In the strained liquor dissolve Hiera Picra simple, and Turpentine, of each half an ounce : Honey of Roses and of Rosemary, of each one ounce : Oyl of Rue and Chamomel, of each half an ounce : make of all a Clyster, give it him after he has been at stool.

Every fifteenth day let all the rest of his body be purged, but especially his brain and Joynts, with this easie and gentle Medicament :

Take Water of Sage and Hyssop, each an ounce : infuse therein two drams of Agarick newly trochisked : in the strained liquor dissolve choise Rhubarb duly infused, four scruples, with half a dram of the best Cinnamon : Electuary of Carthamus two drams, Syrup of Stachados, half an ounce : make all into a Potion.

But if he shall be better pleased with Pills, these truly are good and fit :

Take the Mass of Pill sine quibus and Cochie, of each half a dram : with Syrup of Stachados make six Pills.

Now this course of life is burthensome, and such as he cannot endure a long season, but yet very profitable and fit for him. Howbeit, if the Patient be willing to be ordered ; and would for the time to come be safely cured of this Joynt Disease, 'tis necessary he undergo greater matters, so as quite to change his old and vicious habit of body, which gradually and without trouble, thus he may effect : Having finished his first moneth in the Diet aforesaid, in the moneth following which is next the Fit, let him wholly abstain from Wine, and instead thereof drink the decoction of *Lignum Vita* aforesaid, keeping (during the same time) somewhat a thinner and more exquisite Diet, though of the same kinds of meat before mentioned : Then let another more Medicinal drink be made, which may more potently digest and consume the already prepared humors, which let him use as a Medicament in the morning, and before Supper. And let it be made after this manner.

Take *Lignum vita*, or *Gujacum*, half a pound ; of the bark thereof two ounces ; infuse them two days in six pints of lukewarm Water, then boyl them to two pints ; towards the end putting in of true Acorns root and Elicampne root and Polypody of the Oak, of each half an ounce : small Sage, Stachados, Betony and Rosemary flowers, of each a pugil : Galangal three drams : Cloves and Mace, of each one dram : make a strained drink as is fitting. Let him take three ounces for a dose, in the morning at five a clock, and three hours before Supper, lying on his bed well covered with cloths, so as he may sweat ; for thus, whatever vitious humor is spread abroad among his Nerves and Joynts, it will be by little and little digested and consumed.

And because the Brain is the fountain and original of this distillation, it is fit to apply more Remedies to that part, than to any other. Having therefore his sweat wiped off, let his Head and Neck be soon after warmed with these Bags, whose vertue is to dissolve the Reliques of the noxious humor, and to strengthen the Brain.

Take leaves of Sage, Marjerom, Stachados, of each one pugil : Annis seed, Fennel seed, and Fennugreek, of each one ounce : Millet one pound ; common Salt half a pound ; Fry all in a frying pan ; put them into two little bags, apply them to the fore-part of his Head and Neck hot, and let them lie on till they Wax cold, and repeat them warm oftentimes, if you shall think fit.

These things being acted, move him to sneeze ; also with Errhins and Apophlegmatisms let the flegm be drawn out of his Brain, through his Mouth and Nostrils : with the continual use therefore of these Medicaments, the fountain of the Disease must be exhausted till it be drawn quite dry. About the end of the moneth, when by Diet, Sweat, Purging, Apophlegmatisms, and bags, his Brain shall be now sufficiently dried and strengthened, and there shall no sign appear of the dominion of flegm ; then verily, all his Limbs, Nerves and Joynts must be strengthened and made firm, that they may not hereafter so easily admit the deflux of humors, to which purpose a bath is effectual, which is made with a decoction of Roses, Balauftins, Sage, Stachados, and Myrtle, adding a good quantity of Allum ; in which (being blood warm) let him

him sit a good while fasting, so as neither heat nor sweat may be caused thereby; but that only his looser Joynts may be thereby strengthened; and let him do this three or four days one after another; after which he may safely return by little and little to his usual free course of Diet, which nevertheless must come as near as possible to this here prescribed: Let his Head be rubbed every morning with the Bags, and let the flegm be daily drawn out at his Mouth and Nostrils: Finally, Let him altogether avoid lying on his Back, and rather lie on his Belly; for lying on his Back makes the excrements flow into his Neck and Joynts; but lying on his Brest will make them encline towards his Nostrils and Mouth. Moderate exercise is good in an open and dry Air. Hard friction of his Limbs will be very good for him when he is newly awaked.

These things being observed, I am confident the Patient will be cured of this Disease. But in case, omitting somewhat or other, he happen to be again taken, when his Fit begins, let him be exquisitely purged with a good strong Medicament: For when a gentle Purge is given, it exagitates the Humors, and yet it purges not, and consequently augments the distillation and the pains, and oftentimes makes them twice as great as before, which makes many afraid and to forbear to purge, at the beginning of the pain. And therefore to the Medicament before prescribed, for a dram of Diacarthamum put in two drams, or so much as the discretion of his Physitian present shall think fit: with this alone I have often cured beginning pains. And soon after the Purgation, let dry frictions be used on his Head and Neck, and that with the Bags prescribed, very hot; that by these the remainders of the distillation may be stopped, and digested, lest it fall into the Joynts. But if so be nevertheless the fluxion of humors continues and possesses the Joynts, and at the beginning of the pain redness and heat appear (such as is attendant sometimes at the beginning of a cold Gout, whereby many are deceived) first you must apply things moderately cold, then pain-swagers, lastly digesters. Cold things I say, which do not drive the Humors inward, but stop them when they are in motion, and extinguish the Heat. Of this sort is the Mucilage of Quince seeds, extracted with Nightshade Water, with which being warm, let the pained part be bathed, and let it be covered with cloths dipped therein. If this do not sufficiently mitigate the pain, add an eighth part of Vinegar; and if so be the pain grow not milder, add a little Camphire, or a little white Trochisks of *Rhafs*.

Let him then abstain from Oyls, Oyntments and fat things all whatever, because the pains are inflamed and doubled by hot things. When by help of the premises, the vehemence of the pain, and all the ardour shall be extinguished; these and such like Anodines will be convenient as follow.

Take Oyl of Lillies and Chamamel, Mucilage of Fleawort extracted in Sage Water, of each one ounce: Saffron ten grains: Wax a little. Make all into a Liniment, wherewith to anoint the pains, twice or thrice in a day.

After the Anointing, apply this following Cataplasme.

Take Crums of white Bread steeped in new Milk, one pound: Saffron twenty grains: Chamamel Flowers and Melilot Flowers powdered, Meal of Lin-seed and Fænugreek, of each half an ounce: Oyl of Lillies, a small quantity: Make all into a Cataplasme.

There are many things of this kind, as the pupil of Cassia Fistula, Cows dung applied, or Water distilled therefrom, Oyntment of the Juyce of Dwarf Elder; and innumerable other things, which vehemency of pain, and necessity has found out. Many torment themselves, and cudgel their Brains to find out new Medicaments. Yet verily, I conceive the Gout is more easily and safely cured by a good Method, than by a multitude of Medicaments. The pains being ended, or most what abated, the rest of the Humor is to be digested, lest in the Joynt it grow into a stony kind of hardness.

Take Pine-tree Gum, Tar, Emplastrum Oxycroceum, of each one ounce: Live Brimstone, Hermodaills powdered, of each half an ounce: Oyl of Turpentine as much as will suffice. Make all into a Plaster according to Art. Apply it after the anointing.

The XIII. Counsel.

Containing the Cure of the Gout, and all Joynt-pains, for M^r. Albertus Junior, Marquess of Brandenburg.

AS soon as ever any man is taken with pains in his Joynts, he must abate half of his ordinary Diet both in his Meat and Drink, and he must be enjoined to follow a thinner and purer Diet, that the immoderate bulk of his body and Humors may be abated; he must drink no Wine, the heat and vaporous faculty whereof, provokes the defluxion of Rheum, and exasperates the pains. His Drink must be Small Beer or Water sweetned with Sugar, or some other Liquor that without any harm doing may please his Palate. All Salt and spiced Meats must be avoided, and such things which trouble the Head, as Garlick, Onions, Water-creffes, Mustard; especially when the pains are most raging. He must use little supping Meats or broths, and Eat rost meat rather than boyl'd, that his Body may by all possible means be dried, and a good quantity of Humors consumed. These therefore are the chief, and most observable Rules of Diet, which his ordinary Physitian may unfold more at large. And because so cruel a Disease cannot be put to flight only by Diet, these Medicaments must be added, whereby I am wont quickly to put an end to these pains. As soon as the pain shall seize upon him, if his Belly be bound, it must be softened with a Clyster, which must have in it Hiera picra simple, or Diaphænicon, with other things usual in such cases. The day after, his body must be purged with a strong purgation, or else it will rather stir than evacuate the Humors, and so encrease the defluxion: Also it must be strong that it may draw the Humors of the strongest and remotest parts: Now such a Purge, I commonly prescribe after this manner.

Take of the stilled waters of Sage and Betony, and of white wine, of each one ounce. Infuse therein of the best Rhubarb and Agarick newly Trochisked, of each four scruples. In the strained Liquor dissolve Electuarium Diacarthami two drams; Syrup of Violets or Maiden-Hair half an ounce. Make all into a potion, and let him take it in the morning four hours before dinner.

This Electuary of Diacarthamum by reason of the Hermodactils and Turbith, is proper for the Gout: whose dose must be fitted to the nature and strength of the Patient. No preparation is to be premised before the purge, because the Humor being at first, thin, waterish, and fluid, does easily follow the drawing of the Medicament. If one purge shall seem not to have drawn away a sufficient quantity of the Humor, and the pains continue as before, or by means of a new fluxion are grown worse, you must purge him the second time with a purge like the former, yea, and the third time if occasion require: but interposing some days of rest betwixt purge and purge, that the Patient may not thereby be weakned: which must be left to the judgment of the experienced Physitian. Now the pains must even before purging, at the very beginning be asswaged with this following Medicament, which by gentle cooling restrains the influxion, and yet does not drive the Humors more into the Joynt.

Take of the stilled Waters of Night shade and Plantane, of each three ounces: steep therein, Marsh-mallow seed and Quince seed, of each half an ounce. Make a Mucilage, and spread it luke-warm on a clean Linnen cloth, or upon Tow, and apply it, renewing the same as soon as it begins to grow dry, that the part may always be moist till all the redness, heat and pain, be taken away.

This is a most effectual Medicament in the Feet and Hand Gout. If the Inflammation seem to be great, add an ounce of Vinegar. In the other Joynts, when a more grievous pain shall arise, as in the Elbow, the Knee and Hip, that the force of this Medicament may pierce the deeper, add Camphire eight grains. When the pains begin, neither Oyls, nor Fats, nor Mineral or Metallick Medicaments do any good, but are found exceeding hurtful in many respects. When the heat and redness being extinguished, the extremity of the pain shall abate, the remainders thereof will be chased away with this following Oyntment.

Take Mucilage of the seeds of Line and Fanugreek extracted in Sage Water three ounces. Oyl of Worms; Chamomel and Lillies, of each one ounce. Fox and Goose-grease, of each half

half a ounce: *Hermoadactyls* finely powdered, two ounces: *Mirrow* of an *Hirt*, or of a *Calf*, and *Wax*, as much as shall suffice. Make an Oyntment and anoint therewith the pained and swollen part, twice or thrice a day, and wrap warm Linnen about it.

Also it will be good to apply this Plaister to the part affected, presently after it is anointed.

Take of the Oyntment prescribed, five ounces; *Round Birthwort Roots*, *Frankincense*, *Mirr*, *Galbanum*, *Opopanax*, of each half an ounce: *Turpetine* three drams: *Wax* as much as shall suffice: make all into Plaister Rows.

If the matter of the pain be so Tenacious, that these Remedies cannot mollifie nor root it up, apply this Plaister at last:

Take *Pine-tree-gum* one ounce: *black Pitch* two ounces: *Wax* one ounce: *old Axungia* one ounce: *Hermoadactyls* powdered, and live *Brimstone*, of each six drams: make a Plaister, which must dayly be renewed and continued till all the swelling seem to be taken away, and till the Joynt may be freely moved.

But if the perfect Cure be neglected, somewhat will be left in the Joynt it self, which at last hardening, will grow into a stony substance, and quite take away the motion thereof.

This is a certain and very safe way to Cure Joynt-pains when they are fresh, which if rightly administred will never fail thee; nor need you seek far and near for other Emperical Medicaments, wherewith we are often deluded. For the Cure of this Disease must be accomplished by Art and Method, and not by Emperical Receipts. Howbeit you must observe and be very circumspect in this Cure, that when a new Humor and a new defluxion shall arise, the Patient be still purged afresh.

But for to Cure such as cannot go by reason of an old Gout, and whose Feet are contracted and weakned as to going, if the infirmity be not exceeding old, it may be Cured after this manner:

Every morning let the Patients Feet be held in this decoction, as hot as it can be suffered, about an hour.

Take *Juniper-berries*, *Elicampane Roots* and *Marsh-mallow-Roots*, of each two ounces: leaves of *Lavrel*, *Mirtle*, *Sage*, *Betony*, *Stachados*, *Origanum*, *Calaminth*, *Marjerom*, *Rosemary-flowers*, of each one handful: *Line-seed* and *Fœnugreek-seeds*, of each one ounce: Boyl all in a clear Lye made of *Vine-branch ashes*, in such a quantity as may serve to cover the Feet, If you would have this more effectual, add one pound of common Salt.

Afterward, the Patients Feet being wiped, let them be anointed with this Oyl.

Take *Roots of Pellitory of Spain*, *Ginger*, *Nutmegs*, *Cloves* bruised of each two drams: flowers of *Sage*, *Hyssop*, *Rosemary*, *Stachados*, *Spikenard*, of each one dram, or half a dram: *Round Birthwort Roots*, and *Hermoadactyls* powdered, of each one ounce. All being mingled together pour on a pint of *Aqua Vita* and let them steep an whole day: then add *Turpetine* one pound and an half: put all into a *Glass Alembick*: distil them with a slow Fire; Keep the Water and Oyl apart for the use aforesaid.

The Patients Feet therefore being wiped, let them be smeared with this Oyntment and Oyl, and wrapped in Linnen clouts: Then let the Patient lye down well covered: Apply to the soles of his Feet red hot Stones quenched in Wine, and let them lie, till the sweat flows out of his Legs and Feet. And when the Patient arises, let him all the rest of the day and the night following, arm himself well against the cold: and thus his feet will obtain a freer motion. And these are the Remedies wherewith the Gout, and other pains of the Joynts, may be soon allayed and driven away.

Now I shall briefly shew how they may be prevented.

How to prevent the Gout, or other pain in the Joynts.

When the pains being ceased, and his Feet strengthened, the Patient shall feel himself restored to his health; for a month or two, before the usual pains return, he must use such Remedies as may prevent the same: And to that end, if his body be impure and full of superfluous humors, he must use the more sparing Diet, and it must be drying and attenuating. He must drink no Wine, if his age, and the weakness of his Stomach will permit the forbearance, and he must

must so order the matter, that his Body, being disburthened of part of the bad humors, may grow lean.

And seeing Diet alone cannot do that sufficiently, he must be purged every seventh or eighth day, sometimes by such a like Potion as was before described, and sometimes with Pills of Agarick and Cochia. In the days intervenient, he must use Clysters, if he be costive.

After the second or third Purgation, if the Body shall be sufficiently purged, it will be seasonable to move sweat, either with Guaiacum, or any other Heaters; that the Humors where-with the Nerves and Joynts are preternaturally soaked, may be attenuated, and so perfectly dissolved.

Then also must such Remedies be applied to the Head, as exhaust the whole Fountain of this Infirmary, wherefore the sweat being wiped off, every day, if you please, before Supper, his Head being shaven, apply these Pouders very hot, that they may discuss the Humors, and by drying, confirm and strengthen the Brain.

Take Leaves of Sage, Marjerom, Stechados, of each half an handful; seeds of Annis, Fennel and Cummin, of each two ounces: Bay-berries bruised half an ounce: Millet one pound: common Salt half a pound: Fry all in a frying-Pan, put them in bags: which may be applied exceeding hot to the Head and Neck, till they grow cold of their own accord.

Then cover his Head with cloaths which must be smoaked with Fume.

Take Nigella Romana, Storax, Benzoin, Amber, Mastich, of each half an ounce: Cloves two drams: make all into a gross Ponder to smok his Head-cloaths.

If haply under the Skin of his Head some Humor be manifestly discerned, his Head must be often washed and Fomented with Lye, wherein the Cephalick or Head-herbs have been boyled.

And if neither, so the superfluous Humors of the Head shall be dried up, let his Head be shaven, and thereon let this Plaister be laid, which is of so great force to discuss.

Take Pulp of Figs, old Leaven, of each two ounces: Mustard-seed bruised three ounces: Emplaister of Mucilages four ounces: soften and incorporate them: adding a little Turpentine if need be. With this Plaister let his Head be covered, and let it lie on, till it have evacuated all the superfluous humors: Stronger Plaisters cannot so safely be used; we must therefore content our selves with this.

The Fountain of the Disease being drawn dry, and the Head quite freed from excrements, and strengthened, for the last part of the Cure, all his Limbs and loose Joynts must be knit and strengthened by such a Bath as this that follows.

Take Leaves of Myrtles, Balanstins, red Roser, Plantane, Vervain, Bay-berries, Origanum, Calaminth, Penny-royal, Thyme, Sage, Rosemary flowers, of each two handfuls: Juniper-berries four ounces: Rock-Allam four pound: boyl all in a sufficient quantity of Water for a Bath, and let him bide therein two or three hours (but let him not be forced to sweat) that his Limbs and Joynts may be better strengthened: and let him use it three or four days one after another in the morning fasting.

This excellent way of Cure, does so pluck up both the causes of the Gout and Joynt-pains, as well that which causes the excrement, as the joynts weakness it self, that the Patient is thereby made perfectly sound and whole. But yet he must not be so confident of the Cure, as to take liberty to return to a temperate course of Diet. But keeping ever after a more moderate Diet, every Spring and Fall let him take a Purge a little before the usual time of his Fits: And for three days after let him wash his Head with the formerly prescribed Lye. Also let him use the Bath, unless he be very much averse therefrom, as counting it troublesome. This is a sure and no ways deceitful Cure, which every Physician can accommodate to any kind of Gout or Joynt-pain. And I should have illustrated the same with many other prescriptions and those very effectual, in case the particular species or sort of the Disease had been expressed unto me, by its proper signs and Symptoms.

The XIV. Counsel.

Concerning extream Purfiness in a corpulent Man.

The Disease is propounded by Dr. Melinus to Dr. Fernelius, for M^r. de Bois-dauphine.

Clandius Lavallensis, whom you are acquainted with, is now the ninth moneth here as Ambassador for the most Christian King, and at last is fallen into a Disease, which he calls an heaviness or Purfiness of his body; but I call it a Plenitude or Plethora of Humors more than his Strength can bear. Moreover he has now already had twice a Loosness, by which 'tis probable he voided such Humors as did burthen him, seeing he bore it well certain days together, and was better after. Now the Excrements which Nature freely expelled, were brown for the most part, and very stinking, uneven, and among the rest, a little flegmatick, clammy matter. He assisted the voluntary flux of his belly, by a dram of Senna, steeped in the Broth of stewed Prunes, and pressed out. And therefore, seeing he is perswaded that he needs purging, and does sufficiently confide in me, and the Practitioners of this place; he refers all to you and your Authority, of whom he is very confidently opinionated. Two things chiefly argue a Plethora or Plenitude *ad Vices*, the heaviness of his Body, and because he finds much good by light Purgations now and then used.

The Answer of Doctor Fernelius.

With such faithfulness and diligence I see the Infirmary of your Lord, M^r. de Bois-dauphine, expressed in your Letter, that you do as it were set before my Eyes, and reduce into my Memory, how I have my self found the same, when I have been with him. A Corpulent habit and vast bulk of Body, because it cannot be maintained save by liberal and full Diet, causes store of Excrements; now especially, his Age declining, he living a sedentary life without Labor or Action, the Air being cold, and the Soil moist. And though my Lord Ambassador seem full of cold and flegmatick Excrements, yet he has withal good store of Choler, which I sometime rember did of it self come away by Stool with violence, and every day give him three stools at least, keeping his body always very soluble. Now in case abundance of superfluous Humors are grown up in his body besides his Nature and Custome; what wonder is it, if his body being weighed down with the bulk thereof, is become heavy, and unfit to perform its wonted functions? Now lest hereafter any worse thing should happen, we must endeavour, that look what superfluity of Humors, a thin and spare Diet has not been able to rid away, it may be purged forth by Physick: seeing we find, that the Loosness of his Belly, whether coming by Nature, or procured by Art, does him much good: but it must be done leisurely, and by little and little, because gentle things do move him, and seeing it is in no wise safe, violently to shake so great a confluence of Humors, lest we bring an old House upon our Heads: The most convenient purgation therefore will be by Pills of Rhubarb and Aloes, of each two drams; Agarick a dram; Cinnamon and yellow Sanders, of each half a dram, made up with Syrup of Cichory. And thus he shall use these Pills. First let him take a scruple in the morning, an hour or an hour and half before dinner. And two or three days after, let him take half a dram, or two scruples, two hours before dinner. And thus must this purgation be often repeated, at short distances of time, still encreasing the quantity, and continuing the same, till it appears that all the bad Humors are purged out, and he have recovered his former health and strength of body.

The XV. Counsel.

Of the prevention and Cure of the Gout, for M^r. de Valletot, the Kings Musitian; translated out of French.

THat you may (Sir) rightly preserve your health and prevent those pains, which are wont to afflict your Feet, Knees, Limbs, and other Joynts. First you must purge four or five times in a year; viz. After Easter, and about the moneth of *August*, with the under-written potion. But after the Feast of *All-Saints*, and about *Candlemas*, with the Pills likewise under-written. And if need be, the day before you must take an emollient and preparatory Clyster. And four or five days after your purgation, or longer, if you please, it will be good to rub and dry your head, with a bag full of the seeds under-written, exceeding hot. And when these days are over, it will be good, especially in the Summer, to wash your head with a Lye made of convenient Herbs hereafter set down, and after to dry the same very well with hot cloaths. Moreover, six or eight days after your purgation, it will be good to dry and strengthen your Brain, towards night or when you go to bed, to use the fumigation here described. But to the Medicaments prescribed, one principal thing must be added, viz. Your course of diet. Wherein five points are chiefly to be observed. First, That you eat not nor drink too much of any meat or drink whatsoever. Secondly, That you must not use strong and vaporous Wine, but such as is very well allayed with Water. Thirdly, That you abstain from sleeping in the day-time, and that in the night you lie not on your Back, but upon one side. Fourthly, That every morning you diligently comb your Head, and void all the excrements of your brain, and endeavour to go to Stool. Fifthly, That you use moderate exercise, and keep your head mean while from cold. If happily the Remedies prescribed shall not hinder, but that a new addition shall be made of pain or defluxion; at the first groveling of the pain you must apply the Oyntment here described, especially if it be joyned with redness, swelling and heat. And if this Oyntment shall not suffice, another must be added. The heat being extinguished, and the pain much-what asswaged, the Plaister following must be applied to the same part, which must be so often renewed, either every day, or every other day, that no swelling, redness, nor Inflammation remain.

The Solutive Potion.

Take Waters of Betony, Sage, and white Wine, each one ounce. Infuse in them Rhubarb four scruples. Agarick one dram; Cinnamon ten grains. In the strained liquor dissolve one dram and a half, or two drams of Diacarthammum. Syrup of Stachados six drams. Make all into a potion. Take it in the morning.

The Dose of Pills.

Take of the Mass of Pill Cochia, and Agarick pills, each one scruple; of Alephangine Pills one scruple; Syrup of Violets as much as shall suffice. Make five pills; let him take them at three of the Clock in the morning.

For the Bags.

Take Annis-seed, Fennel-seed, Cummin-seed and Bayberries, each two ounces; Millet one pound; common Salt half a pound. Beat them, and fry them, and put them in bags made of thin-wove cloth, for the use aforesaid.

The Fume.

Take Nigella Romana, Styrax, Benzoin, Amber, of each half an ounce. Let them be dry and grossly powdered, and so put into a Box, for a fume powder. Or a Cucurpha, or quilted Cap may be made therewith to wear upon the Patients Head.

The

The first Oyntment or Smear.

Take Water of Night-shade and Plantane, each half a pound. Vinegar two ounces. Infuse therein seeds of Quinces, and Flea-wort, of each half an ounce: extract a Mucilage over the warm Embers, and therewith luke-warm foment the pained part, with Linnen Cloaths.

The second Oyntment, truly so called.

Take Oyntment of Populeon three ounces; Dialthæa one ounce and half; let them be incorporated together to anoint the pained part, after the fomentation aforesaid.

The Plaister.

Take Florentine Orris root, Hermodactils powdered, of each six drams. Emplastrum Oxicroceum and de Mucilaginibus, of each two ounces. Pine-tree Gum one ounce. Soften them with a sufficient quantity of Oyl of Worms, and make a Plaister-Rowl, spread some upon Leather for the pained places.

Diet-drink.

If he cannot be perfectly cured with these Remedies, it will be good for him to abstain from Wine, and to drink twice a day the former decoction of *Lignum vitæ* with the bark, which has been by M^r. Fernelius formerly described:

The XVI. Counsel.

Of trembling of the Members.

YOU (most learned *Orpheus*) out of your own Ingenuity and Candor adorn me with such Praises, as I am loth to acknowledge, or rashly entertain. But that, out of the honesty and sincerity which becomes a Christian and Phylosopher, you bear a loving affection towards me; I give you all possible thanks, and shall be ready upon all occasions to requite your love, if by any means I may assist you by my endeavours or countenance. And that I may now satisfy you as to the business in hand; that same trembling which you propose, in the strongest Age of a Man, cannot spring but from very grievous and preternatural causes. And because I do not understand that the Patients Brain is remarkably affected, nor that flegm does any where abound, there must be some extraordinary cause of this Symptom. Considering the Patients by-past life, and the constitution of his body, I am with you induced to think, that his Nerves and solid parts are weakned by immoderate use of Strong unmixt Wine, and of Venerie, and that they are now become so feeble, that they cannot perform their Natural and wonted office; neither being able firmly to move, nor to hold the Joynts Stedfast. Hence is trembling caused, which is then urgent, when the Patient is put in fear, either by the presence of great persons, or upon some other occasion as is usual.

And seeing that this trembling has its original, rather from the dryness then repletion of the Nerves, it will hardly admit of cure, even as a Convulsion springing from emptiness. Yet if you are minded to make tryal, you must endeavour the Cure, neither by purgations or immoderate evacuations, but by the contrary Causes, and a good course of diet. But nevertheless if you shall perceive any crudity to stand in the way, that may safely be removed, either with a Clyster or with a potion of Rhubarb and Agarick, you may do it.

Yea, and if also you shall think fit to purge pure Choller, which abounding about the Mⁱdriff, is many times observed to rush into the Nerves of the spinal marrow; and sometimes to cause trembling, other whiles nummedness and palse: the self-same, or some such potion should be repeated every tenth day. Also he should be prepared two or three days before his purging, by Apozems: and in the intervenient days, if he be bound, he must have a Clyster, with a good deal of *Hiera* simple, and Honey of Rosemary.

This Method of Cure is to be continued, to the thirtieth or fortieth day, or at least till his trembling do begin to go away. At which time he must wholly forbear Wine, the only Abstinence whereof, has cured these Diseases. And let his Drink be, either Barley Water, or ordinary Ptisan, in which Cinnamon or Nutmeg are steeped; or a dilute Decoction of Guajacum, which they call a *Bochet*; or Metheglin wherein Sage has been steeped. Let him use Meat of good Juyce, and sparingly, sometimes roast, sometimes boyl'd, that it may neither altogether dry, nor over-much moisten. When by means of good Diet, and the foresaid Medicaments, his Body shall seem not so much to tremble, and so the Humor will be prepared, and the Antecedent cause evacuated; then it will be good to use Baths, wherein Cephalick Roots and Herbs are boyled, or vaporaries thereof composed, wherein for some days together, in the morning his Body is to be rubbed, till the sweat runs down. And when he is dried, let him be laid in a warm Chamber, wherein all his Back-Bone must be anointed with this Oyl:

Take Stachados, Rosemary flowers, Sage, Marjerom, Primroses, of each one handful; Bay-berries and Juniper-berries, of each half an ounce: Nutmeg, Ginger, Cloves, Pellitory of Spain, of each three ounces. All being bruised, sprinkle thereupon a pint of Aqua-Vitæ. Then pour thereon common Oyl a pint and half. Let them boyl together over a gentle fire, till all the Water be drunk up. Press out the Oyl, and reserve it for the use aforesaid. And never leave this course, till his trembling be quite gone.

If haply during the Cure any suspicion of a Distillation shall arise, which may concur to foment the trembling; it also must be dried, with Millet and other fried seeds, and with a fumigation. Or if it prove very troublesome, it may fitly be derived by Errhins, or Nose-liquors.

The XVII. Counsel.

Of Trembling and Heaviness.

*A Letter of the Provost of Pertica, propounding the Case:
Translated out of the French.*

FROM the Year, one thousand, five hundred and fifty, I began to feel a great illness, with a trembling of all my Members, especially after meat and sleep. A pain goes from the middle of my Hip, directly to the Brain, comprehending all the right side of my Back-bone, and reaching into my Arm on the same side; and all my members remain heavy, so as not to be moved, and to desire nothing but sleep, especially after meals. And I feel through the whole habit of my Body, a certain fluxion, under my Skin, of Waters, which sometimes makes a tumult like a swift torrent; and sometimes they run slowly, so that you would say it were only the elevation of a thick Vapour, through the Nervous parts, as far as to my Gums. Now my Head is frequently vexed with coldness, as also other outward parts of my Body: nor can I long stand upright, nor endure to stand still; and the right side of my Body seems absolutely fallen away, and pined.

The Answer of Dr. Fernelius, to the foresaid Letter.

A Frequent distillation falling upon the Muscles, Nerves and Membranes, especially on the right side, is one, if not the only cause, of all those Symptoms, which are at large declared in your Letter, as of heaviness and pain, which is in your Back, Arms, Hands, and right Hip; whereunto is added a weakness of your Body, by reason of the ill Constitution of your Stomach and Bowels. For they are obstructed and impure, nor do they conveniently nourish the Body; and the Causes are, frustration of Concoction, and the Head especially, but the whole Body withal, clouded with Vapors, and wonderfully burthened. In this variety and contrariety of Infirmities, a light and gentle Cure must be undertaken, which may cleanse the Head and Nerves, as little offending the Stomach and Bowels as may be. In the first place therefore the whole Body must be purged with this following Syrup, twice a moneth, which is compounded with respect to all the Premises.

Take

Take Syrup made of Head, Liver and Spleen-respecting ingredients, with three ounces of Senna, and two drams of Agarick.

Five or six days together after the purging, take fasting, at least two hours before meat, one of the following Lozenges.

Take Powder of Diamargaritum Frigidum, and Eleauiarium lactificans Galeni, of each half a dram: shavings of Ivory and Harts-horn, and choice Cinnamon, of each a scruple: white Sugar dissolved in Rose-water three ounces. Make an Eleauiary in Tables or Lozenges weighing three drams a-piece.

Also these dry Remedies following, are to be used to purge and strengthen your Head.

Flegm must be drawn out at your Nostrils by the Juyce of Marjerom and Betes, or some Strong Sneezer.

Your Head must be dried and strengthened by the ordinary Bags. And as for the coolness and weakness of your Nerves, if any thing help you, it must be a decoction of Guajacum used at meals instead of Wine, in the morning to sweat upon: which sweating if your strength will not bear, at least your whole Body must be rubbed, soon after sleep, pretty hard, with hot and dry linnen cloths; and afterward, with moderate exercise, let all your Joynts be long warmed and strengthened. And after you have been purged two or three times by the Syrup, if your Joynts prove not sufficiently firm and Strong, use dry Baths, or Bath-Stoves, which have a mighty faculty to dry and Strengthen the Nerves. They must be made after this manner.

Take Juniper-berries, Roots of Acorns and Elicampane, of each two ounces: Sage, Betony, Marjerom, Stachados, Bays, Wormwood, Origanum, Calamint, Rue, Chamomel, Melilot, Dill, of each a handful: Annis seed, Fennel seed, of each half an ounce: Boyl all in Water and White Wine. Pour the decoction on a hot Tile, and receive the Vapour in an Hogshead, or other covered bathing Vessel till your Body grow hot and the sweat run out. If you cannot easily endure the stove; at least lie in your bed in the morning very well covered, and let hot stones extinguished in the foresaid decoction be laid to the soles of your Feet. And thus as you lie, you may gently sweat, and let the sweat be wiped off.

And this course must be continued till all your Nerves be sufficiently firm and strong. As to diet eat but twice a day, and that sparingly, that your weak Bowels may not be overwhelmed. Let your meats be of good Juyce, and easie of digestion, such as all men are wont to commend.

Eat no fish, or very little, but no Beans or Pease, or the like. Abstain also from Fruits and herbs that are raw; from all suppers and Broths, and from all those things, which overmuch fill and moisten the Body. Use Wine that is neither very vaporous nor strong, but thin and plentifully allaied with pure Water, lest it trouble the Brain and Nerves; Abstain from all other drink, and use that soberly and sparingly. Because nothing does more cool and moisten the Nerves and oppress the whole Body with heaviness, than over-much pouring in of drink. You must sleep long after meals, and avoid noon-day sleeps.

The XVIII. Counsel.

Of pulsation and hissing noise all the Body over, and of Corpulency.

A Senator of Carnate, fleshy and full of Blood, being thirty four years old, having a great Burgomasters Belly sticking out, as he was lying in his Bed, thought he heard a certain hissing noise, and pulsation as it were, which being evenly spread all his Body over, did not rest peculiarly in any one part, nor could be perceived by the touch, but only was heard both by the Patient and those that were with him, if they diligently listened. Now though this Man was not troubled with any pain, nor any horrible Symptom appeared, yet he was afraid lest he should die suddenly. This Symptom as we have it declared unto us, is a vehement pulsation of all the Arteries, which is most full of all, obscurely heard, about the Head and Temples, as he lies in Bed. And it proceeds from plenty of spirit and hot blood, which growing hot without Purification and working, stretches the Veins, and fills the Arteries with thin and vaporous

vaporous blood, causing a fence of that same swelling, great and vehement pulsation. An argument hereof is, that if his blood either by intemperate diet, or immoderate exercise, or the fire, be a little heated and stirred; these Symptoms of his are exasperated and grow worse. And therefore this is only the effect of abundance of Heat of blood, nor does it argue any more grievous evil to lurk within, nor does it threaten any worse evil, provided timely Remedies be applied. The first and chiefest way of prevention and cure does consist in point of diet. And the sick Gentleman must use very little Wine. He must eat boyled flesh rather than roast, and dip both in Juyce of sower Grapes or Vinegar, or Juyce of Sorrel, or of Lemons or Pomegranates. He may profitably eat Fish, especially if they be of hard and solid substance: yet let him eat thereof, but sparingly and frugally. Sometimes especially on Fish days, let him sup with Barley Cream. Let him shun all Salt and peppered Meats, or otherwise spiced, and sharp as Garlick, Onions, Mustard, Water-Cresses. Also vehement exercise of his Body must be avoided, and over heating the same, also Wrathfulness and Sadness; finally, all disturbances and over-much intention of the mind. If by this course of Living, in the space of about twenty days the trouble shall not cease, the weather being warm he may take some Physick: and in the first place give him an emollient Clyster, the day after purge his body with this Medicament, which is also accommodated to the pain in the Kidney.

Take Pulp of Cassia six drams; Diaprrune Laxative one dram and half; Rhubarb powdered one dram. With Sugar make a Bolus.

On the third day, open the inner Vein of his left Arm, and take away blood as his Strength will bear, to ten or twelve ounces. The following days, give him in the morning one dose of Syrup of Cichory simple, and Syrup of Vinegar simple; out of a double quantity of Water wherein Cichory and Sorrel Roots have been boyled. Moreover, let the prescribed course of life be continued, till that same vehement pulsation be quite gone, and the danger of fulness be avoided. And also nothing will be more useful for the health of his Body, than long to hold that same cooling order of Diet prescribed.

The XIX Counsel.

Of a Consumption of the Lungs, for a Citizen of Roan.

THE Disease described is the Consumption, caused not only by a distillation, but through fault of the Lungs, which have been long time apparently oppressed with shortness of breath, and are now so weakned that their proper substance does not only consume, but corrupt and rot. An Argument whereof is, a soft and flegmatick swelling of his Foot and Thighs. Moreover his now spitting of Quittor and purulent matter, argues the Consumption to be confirmed. And therefore the Disease is now become uncurable, nor is there any hope. Howbeit, the life of the Patient must be lengthened as long as by Art is possible, by gentle and debonair Medicaments, which mitigate the Disease without weakening the Patient. And therefore abstain from any further Blood-letting. And in case Blood happen at length to break out again, it will be better suppressed, by a dram of choice Rhubarb powdered.

Or if it shall any ways seem fit to purge, it will be sufficient to give him Cassia Fistula, or an Infusion of Rhubarb. And his spitting must be furthered with Lenitives and Deterfives, which do not vehemently open, such as Jujubes, Sebestens, Figs, Raisins, Polypody, Colts-Foot, Pimpernel, Hysop, with good store of Sugar, made up in manner of a Lick-pot. Also *Electuarium Resumptivum* will be good, and *Unguentum Resumptivum*, wherewith his whole Body must be anointed, evening and morning. So also in the beginning of the Spring, he must use Asses Milk, artificially prepared, which must be given him in the morning when his Stomach is empty, four hours at least before Meat: or if he cannot easily have the use thereof, Barley Cream and Sugar of Roses, must in like manner be given him at the same hour. I doubt not but the rest of his diet has been prescribed, according to the Rules of Art. Let him use meat easily to be digested, a little at a time, and often, lest he over-whelm his weak Nature, and encrease Crudities, which are the Cause of the Flegmatick Swelling.

The

The XX Counsel.

The History of the Disease written by M^r. Crab, the Kings Physitian, to the Physitians of Paris, for the Lady De le Aubespine, enclining to a Consumption.

THis most noble Lady had been now six moneths with Child, still subject to defluxions from her Head into her Breast: whereas after a long stay in the Sun, and acrimony of blood contracted by passions of mind, she fell into a spitting of blood, which was much in quantity, hot and of a flourishing colour, all which signs shew, that it came from no other part save the Lungs, and rather by opening the Mouth of a Vessel, than by breaking the same, or fretting it insunder, as things going before and following after do perswade us. Now this Symptom ceasing only by Medicaments and those but few, which did abate the fervency of blood, and furnished with an astringent and soddering faculty, the Physitian who was with her thought fit to abstain from blood-letting, and other stronger Remedies accommodated to her Disease, till being brought to bed, she might more easily bear them through increase of strength. But a Feaver arising after she was delivered, which after a Chollerick and Putrid Loosness, without any other Physick, save an Apozem to move her purgations, went away; she complained of a pain in the right side of her Chest, and how she could not endure to lie on that side of her body, with shortness of breath, and a sense of weight if she lay on the other side. But a few days after, she after a long coughing fell to spit blood again, and that frequently: wherefore finding her in good strength, we thought it fit to proceed to the chiefeft and best Remedies of that Disease. This method therefore we resolved exactly to follow. Having cleansed her Belly with a gentle Clyster, out of the inner Vein of her right Arm we took three ounces of blood. The day after we did let her blood again. And because by both the bleedings thick slimy and half putrified blood was voided, the same day, some hours after, we drew some out of the same Vein: which finding to be purer and more sincere, we thought fit to stop it.

After blood-letting we purged her, having first given her a Julep. Now her purgation was exceeding gentle, of a dram and an half of Rhubarb in the infusion, with half a dram thereof in Pouder, and half an ounce of Syrup of dried Roses. After purging we set our selves to strengthen her Brain, and to draw the Vapors through the sutures of the Skull, applying to the Coronal Suture Emplastrum ex Ammoniaco and Pigeons dung.

In the mean while, we did not neglect the part affected. In the first place therefore, we prescribed a Clyster, and stoppers of blood. And such things as might heal the wound if any were, and that the thin and sharp defluxion being thickened might stop. Among which kind of Medicaments is the solid Electuary of Terra-Lemnia and Bole-Armenick, Red Coral and Blood-stone, Conserve of Roses and Syrup of Poppy being added, with Species of Diatragacanthum frigidum, rejecting the hot Species of Diapenidium as unfit in this Case. But that the Humor already in her Lungs might more easily be purged out, we prescribed an attenuating and deterfive Chest-Syrup, which might move spittle. Also a March-pane made of new Pine-Kernels and Almonds with Sugar and Rose-Water made up with an infusion of Gum Tragacanth, Sorrel-seed, Plantane-seed and Purslane-seed; which March-pane besides that it makes one easily expectorate, by its astringency it likewise glues and sodders. We added that which every body commends, the use of Asses milk, with powder of Sugar of Roses.

So that now we doubt not but that this noble Lady will recover by the use of the prescribed Remedies, nor do we fear any mischance as long as she will follow good advice, and shall not neglect that course of diet, which she hath hitherto observed. But in case by external Injuries or some vehement motion of mind, or strong and loud contentious speaking, or untimely watchings, the disease shall return upon her, we advised her to use the same Remedies. But for prevention of this evil, we account moderate blood-letting and purging with an Infusion of Rhubarb, when the Spring enters, and in Autumn, to be the most speedy and convenient Remedies in the world, and we do exceedingly commend the same.

The Answer of Fernelius.

Hot and fresh-colour'd blood many times by fits brought up with coughing, is indeed rightly judged to come from the Lungs. But because the most noble Lady our Patient has a soft and tender body and weak Lungs, and has been long time subject to a distillation and Cough, it is very much to be feared, that the Vein is not only opened, but fretted asunder (for I find no reason to think that it hath been opened by violence) yea, and seeing upon the last voidance from that part, an evident pain arose in her right side, with shortness of breath and a sharp Cough, also with a certain pain and heaviness and weight, especially when she lies on the contrary side, unless she had then a true Pleurisie, we have great reason to suspect, both that her Lungs are ulcerated, and that there is such a collection of matter as threatens an Imposthume. Howbeit the Remedies of Art have been so accurately and diligently applied to these evils, that the sick Gentlewoman seems now to be in a good and safe condition, without any danger of a Relapse: which is to me the best and most acceptable news in the world. And therefore I conceive she ought to persist in the use of these Remedies, by help whereof she has recovered, and especially of the Milk and Barley Cream. But nevertheless, because these kind of Maladies are wont to be most dangerous and deceitful, and commonly to lie long hid, under a counterfeit appearance of health, till at one time or other upon some light or no occasion, they gather Head afresh; wary observation must be made, whether any of the old malignity remain in her Brest or no, and whether she is not sometimes vexed with her Cough, or troubled with a lingering Feaver, or shortness of breath. For if these things be observed, it may haply seem fit besides her morning milk, and course of diet prescribed, to give her such things as are gently lenitive, and mildly purge and strengthen the Lungs.

The Disease before described, brought the Lady de l' Aubespine to her death. For she was consumed with a lingering Feaver, the pain of her side came again: and spitting of blood, with greater shortness of breath. Her body being dissected, her Lungs were found putrified, cleaving to her Ribs, with sundry Ulcers.

A Writing of M^r. Fernelius, when he was to Reason with other Court Physitians, about the Sickness of Madam de l' Aubespine, when she came first to this City.

When she was with Child in her sixth moneth, without any violence betiding her, without any distillation or foregoing Cough, she began of a sudden to bring up from her brest, and spit out blood with Wheezing, but no great straining. At the same time she began also to bleed at the Nose, and sometimes the blood would run back into her Throat, whereas during this time of her being with Child she had not before bled at the Nose, though her Veins did swell with fullness, and formerly she was always wont to bleed, when she was great. When five days were over, her spitting of blood stopt and went away, yet a dry Cough continued without wheezing or rattling, without any difficulty in breathing in her Child-bed, little or no Purgations brake forth, which were afterward provoked with Syrtup of Hyssop. The fifth day after she was brought to bed, a most burning Feaver held her for two days, by force whereof a light pain was raised in her right side. After this a lingering Feaver held her, scarce discernable, and settling into her right side. A few days after, a greivous distillation fell into her right Shoulder, and into her Shoulder-blade, and into that part of her side, which before had troubled her. Being the third time let blood after a purge, the pain of her Shoulder and Shoulder-blade, ceased. But it continued in her other side as it does still. After which she alwayes found it troublesome to lie on her right side, and was short breathed, though she voided no blood. By all which it may appear, that the first eruption of blood came neither from the breaking nor fretting of a Vein, but only a Vein was opened through immoderate plenty of blood; And that was only in the right side of her Lungs from which she felt blood to drop, when she lay on her right side. After which came the distillation, which falling on her right side, caused that pain, so that there is a conjunction of two Diseases, the one of her Lungs, the other in her right side. And besides these Diseases, her Liver is also over hot and obstructed, with a light pain and hardness, and her right Kidney is sometimes afflicted with Nephritic pains.

The XXI Counsel.

Touching spitting of blood from the Lungs with a Cough. For M^{rs}. de Baumont fifty years old. Translated from the French.

THat you may receive some ease of your shortness of breath, and that it may be hereafter prevented, least you fall into a Cough and spitting of blood, and that in so great quantity as lately happened: you must use all diligence in shunning vehement exercise, great heat, wrath, and other perturbations of mind. Also you must abstain from strong Wines, and hot meats, salted or spiced, and all other occasions, which may over-stir or heat your body. Nor must you eat or drink liberally: Moreover four times in a year, when the season is most convenient, and on some fitting daies, your body must be purged with the underwritten Bolus, and it will be good to take Conserve of Roses frequently when you are going to bed. But if your spitting of blood should happen to return, it will be convenient after a gentle lenitive to open the Basilica Vein in your Arm, which is best for the fluxion into your side. And the day after to drink a little potion with toasted Rhubarb in it. And frequently to use every hour a familiar Opiate, such as was long since prescribed for you, till the spitting of blood cease. And in the mean space to abstain from Wine, and quench your Thirst with the Julep of Roses, or with Syrup of Myrtles, or of Purslane.

The Bolus.

Take Pulp of Cassia new drawn six drams, Rhubarb powdered one dram and half, Electuary of Diatrachanthum frigidum or white Sugar as much as shall suffice. Make all into a Bolus.

The Potion.

Take Rhubarb toasted one dram and half, Syrup of dried Roses six drams, Plantane water four ounces. Mix them into a potion.

The Opiate.

Take Conserve of dried Roses one ounce, Bole-Armenick three drams, Terra Sigillata two drams, red Coral, Amber, Harts-horn burnt, of each half a dram: Syrup of Myrtles as much as shall suffice. Make all into the form of an Opiate, or of a Lick-pot.

Also for prevention, though you void no blood, you must often take of this Electuary.

Take Conserve of Roses and Comphry, of each half an ounce: Trochisks of Amber and of Terra Sigillata, of each one scruple: Red Coral, choice Pearl, of each half a scruple; Sugar of Roses as much as will suffice. Make all into an Electuary: Let him take a spoonful an hour before meals.

If blood shall break out again, the use of Bole-Armenick will be very profitable. And afterwards, when it is suppressed, your Lungs must be strengthened, gently purged and cleansed with this following Syrup.

Take stoned Raisins one ounce, Polypody of the Oak, scraped Liquoris, of each two drams: Colts-Foot, Scabious, Pimpernell, Knot-Grass, of each one handful: Seeds of Marsh-mallows and of Cotton, each one dram. Make a Decoction to a pint, in the strained Liquor dissolve nine ounces of white Sugar. Make it into a Syrup of an indifferent Body: Let him use it every hour, and at all times out of a spoon without any waters. It strengthens and cleanses the Lungs.

For another in the same Disease.

Against his Thirst, let him use the Julep of Roses, with four times as much boiled water mingled with it, or Syrup of Fijubes, Myrtles and Purslane after the same manner.

Also, Take of the Powder of Elecuarium Diatragacanthi frigidi, one dram and half; Yellow Sanders, Harts-horn, of each two scruples; Choice Rhubarb two drams, white Sugar dissolved in Rose-water, three ounces and an half; Make all into Lozenges or Tables. Let him take one of them one hour before Supper.

Also, Pills of Rhubarb are good, and a fumigation when he goes to bed. Likewise Conserve of Comphry and Roses, each one ounce: Trochisks of Bele half an ounce, Syrup of Myrtles as much as shall suffice. Make all into an Opiate.

The XXII. Counsel.

For M^r. Sigismund, troubled with extream shortness of Breath, called Orthopnæa.

Understanding by your Letters (most renowned *Sigismund*) that you earnestly desire the recovery of your health, and that you place great confidence in me to that end; I find my self vehemently allured and provoked, according to my slender Learning and Experience in the Art of Physick, to endeavour all I can to help you. I account it verily a miserable and sad condition, for a man truly ingenious in his manners, and of remarkable learning most apt for employment in the Common-wealth, in the prime of his youth to be so tormented and insnared by the cruelty of one Disease, as that he is thereby taken off from all excellent Employments whatsoever. I have therefore sought out, and devised for you a very easie method of Cure, and a few Remedies, which by Gods blessing may deliver you from this grievous bondage, and that sweetly and gently, according to your desire, without any offence either of your Brain or Lungs. The Disease propounded is that which we call *Orthopnæa*, returning at certain Seasons, the distances whereof I wish I had been acquainted with, under this Disease the Lung-pipes are already somewhat obstructed with thick and clammy flegm, wherewith the very substance also of the Lungs seems to be stuffed in some Measure. And as often as any new distillation from your Head falls thereon, it doubles the Obstruction, fills the Wind-pipes, stops the Breath, and makes very great shortness of Wind, which persists so long, till the newly fallen fluxion is either dissipated, or concocted and spit up. There are therefore two principal scopes of the Cure; one that the distillation may be driven from the Lungs, the other that the Lungs may be freed from that wherewith they are already stuffed. To attain the former, our chief care must be to diminish the matter of the distillation, and to endeavour that hereafter as little as may be come in the place thereof. Now this may be done, if a thin, sparing, drying Diet be observed, and you eat but twice a day not of suppings, broths, and such like liquid meats, but of dry and solid things, must commonly of rost flesh, such as is of good juyce, and easie of digestion. You must abstain from all Fruits, excepting from Raisins, Figs, Prunes and Almonds. Let your drink be White-Wine or thin Claret, not too strong nor Vaporous, and sufficiently allaid with water, that it may not fly into the Head, and fill the same. Never eat so, as to satisfy your self; drink very exceeding sparingly, and oftentimes endure thirst; that by this course of Diet, all superabundant humors may be drawn out, and your whole body grow lean, and your head it self, the fountain of this evil, become dry. You must by little and little accompany your self to these Rules, wherein the chief force as well of curing as preventing the *Orthopnæa* is placed. It will be exceedingly conducing to your health, to continue and most punctually to observe the same all your life. Nothing is so grievous and molestful, which custome will not render easie. And because Diet alone, though punctual enough, can hardly draw out all the impurity of a body which has been now a long time crazy, purgation must also sometimes be used; especially at the beginnings of the four quarters of the year. It may be in the beginning of Winter and Spring, with pills of Agarick and pills *Cochy*; but about the beginning of Summer and Autumn by such a like potion as this.

Take

Take Sage and Betony water and White-Wine, of each one ounce; infuse therein choice Rhubarb, Agarick trochisked, of each four scruples; in the expressed liquor dissolve Dia arithmum two drams; Syrup of Hyssop half an ounce: Make all into a potion; Let him take it in a chosen day and hour.

If the time of the future fit be certain and fixt, the purge is to be taken eight or ten daies before. Or if peradventure it set upon a man on a sudden; at the very beginning of the fit he must be strongly purged, that the matter which flows in may be rooted out, before it fasten it self into the Lungs; and if one Purge cannot do the deed, another must also be given, till the whole defluxion be rooted up and stopped. Every morning your head must be dried and rubbed, either with rough Linnen Cloths, or sometimes with such bags as follow.

Take Annis-seed, Fennel and Cummin-seed, of each two ounces; Bayberries bruised one ounce, Millet one pound, Common salt half a pound; Fry them in a Frying-pan, then put them presently in a bag, wherewith your Head must be rubbed hot.

After the rubbing of your head, let flegm and snivel be every morning drawn out of your Nostrils, and with the vulgar and common medicaments used to that end. Sometimes you must move neezing, that a revulsion to your Nostrils may be made of such humors as are wont to fall into your Throat and Lungs. You must use moderate recreation, especially in the morning, and before Supper, or at least instead of Exercise, hard and rough frictions of your body are to be used. Let afternoons sleep be avoided, and sleep but little in the night. Lie never on your back, but only on one side, that the excrements of your brain fall not into your throat and wind-pipes, but may run to your Nostrils. Shun the Air when it is moist and cold, cloath your head well in the Winter, that it may not feel the Injuries of cold. Also your head may be smoaked with odoriferous materials, hot, dry and strengthening, as Nigella Romana, Storax, Benzoin, Amber and Roses. These few precepts therefore of regulating your self must be observed after your cure all your life long, that you may not so easily slip into this Disease again, whereunto you have been accustomed. And now I come to the proper and peculiar Cure, which by the help of medicaments, may remedy the vitious constitution of your body. To this Intent you must chuse a time between your fits, when being delivered from one, you did not fear to fall immediately into another: and this time of Cure ought to be about thirty daies. In the first place therefore, the former course of life being undertaken and punctually observed, your belly must be loosened with a Clyster of an emollient Decoction, with Hierapicra simple and Diaphænicon, each one ounce. Honey of Roses and Rose-mary, of each one ounce: Oyl of Annis-seed three ounces. The day after purge with that potion which I before described. After that, the remaining humors must be purged with this Apozem.

Take Polypody of the Oak, Carthamus seeds, Roots of Elicampne and Fennel, Raisins cleansed, of each half an ounce: Savin, Betony, Stechados, Hyssop, Savory, Colts-Foot, Thyme, of each one handful: Seeds of Annis, Marsh-mallows and Cotton, and of Liquoris, each two drams. Make an Apozem for four Doses, clarified and aromatized, with a dram of choice Cinnamon. Let him take it twice a day, two hours before meals.

This Apozem must be continued five or six daies, and in the mean time if your belly be bound, loosen it with a Clyster. And at last purge again, either by potion or by pills: Now such a potion as this will be exceeding good, being fitted both for the Head and Lungs.

Take Polypody of the Oak, Carthamus seed, Elicampne Roots, cleansed Raisins, Senna, of each three drams. Make a decoction for one dose; in the strained Liquor, infuse Agarick trochisked one dram and half. In the expression, dissolve Diaphenicon two drams: Syrup of Hyssop half an ounce. Make it into a potion, take it fasting four hours before meat.

When by these Medicaments, and a sparing course of Diet, he shall appear sufficiently emptied; Remedies proper to the head may be then seasonably applied. Being therefore polled to the skin every morning, and an hour before Supper, it must be rubbed with such bags as I formerly described exceeding hot, and they must be endured till your whole head feel hot: and then if it may not seem troublesome, it will be very good for you to use the decoction of Guaiacum for eight daies. And that is to be took in the morning, and three hours before Supper; and when by force thereof you find your self to sweat, then the bags very hot may most seasonably be applied to your Head. Your sweat being wiped off before you take meat, let the Snivel and Rheume be drawn out of your head after this manner.

Take Sage, Betony, Marjoram green, of each an handful; Orris root an ounce; beat them together, and at last pour on White-Wine and Hydromel, of each two ounces. Squeeze out the Juyce, snuff it up into your Nostrils, having first blowed your Nose; and if this shall not draw enough, make use of this more potent Errhine following.

Cut two pieces of the Root of Bindweed, like to plugs or stopples, two fingers broad in length; steep them in Aqua-vita, and put them in your Nostrils, first into the right, and then into the left, and suffer them there to abide till the Rheume run down abundantly on either side.

Also neezing may likewise be provoked, by the violent motion whereof the excrements of your Brain may be derived into your Nostrils, and all the evacuation of your Head drawn that way. To which intent neither Cupping-Glasses nor Apophlegmatisms will much avail: for the former do very little purge the Brain, and the use of the latter is not very safe, because they bring the Rheume into the Throat, from whence it should rather be revelled. When for the space of about eight daies your Brain shall be sufficiently purged, shave your Head, and lay on this Plaister, which powerfully stops and dissipates all fluxions.

Take fat Figs and sharp Leven, of each half a pound; seeds of Agnus Castus and Water-Cress. ses bruised, of each one ounce; Mustard-seed bruised two ounces; of the Plaister of Musilages four ounces: sift and incorporate them, adding Olenm Irinum as much as shall suffice. Spread hereof a Plaister upon Leather, and lay it all over your Head, and let it be renewed every morning.

It will by little and little draw all the moisture out of your Head, which neither Cantharides applied to the Hinder part of the head, nor an Issue made in the fore part of the Head at the future, nor letting blood in the Fore-head Vein can effect. While you wear this Plaister, the Cure may be directed to the latter scope or intention, and the stoppage of your Lungs opened by this Apozeme.

Take Roots of Elicampane, Polypody of the Oak, Carthamus-seeds, cleansed Raisins, of each half an ounce; Hyssop, Savory, Thyme, of each one handful; Senna one dram and half. Make a Decoction to half a pint, adding towards the end Agarick trochisked half an ounce: Orris root of Florence three drams. In the strained Liquor dissolve white Sugar, the best Honey, of each one ounce. Make an Apozeme of three Doses; let him take it every other day, four hours before Dinner.

When you have took the Apozeme, take off the Plaister, and keep your Head very warm, and let the rest of the Cure consist in the use of those things which smooth and comfort the Brest and Lungs, such as is this Cough-Syrup following.

Take Jujubes, Sebestens, fat Figs, five of each; Polypody of the Oak, Carthamus-seeds, Raisins stoned, Elicampane Root, of each half an ounce: Origanum, Calamint, Hyssop, Savory, Thyme, of each one handful; Seeds of Marsh-mallows and Cotton, of each three drams. Make a Decoction in Hydromel to a pint; Make a Syrup perfectly boiled, clarified and aromatized with Guajacum and Florentine Orris Root, of each two drams. Use it often in a spoon, licking and swallowing it down by little and little.

For the same intent and purpose this following Wine is excellently good and profitable, which being taken in the morning, does also strengthen all the faculties of the Body.

Take the best White-Wine, Hydromel perfectly boiled, of each one pound: Infuse therein Elicampane Root and Polypody of the Oak cut small, of each two drams: Let them so stand, and after twenty four hours, let him take every day four or five ounces, at least three hours before Dinner.

This Course of Cure, though easie, and not intangled with difficult and burthensome Medicaments, will yet be sufficient to chase away this stubborn Disease. But if nevertheless any shadow thereof shall happen to return at the very beginning, you must strongly purge with the foresaid Medicaments, and in the very fit the bags must be applyed very hot to your Head, and lick Oximel Squilliticum, and sometimes a little Aqua-Vitæ: for this readily helps, especially if your Purge have brought away good store of watry and serous excrements. And because stubborn and long lasting Maladies can be hardly universally and suddenly rooted up; if any thing shall remain after the Cure, let it be by little and little taken away with the good Diet before prescribed, and such purgations as are accommodated to the several Seasons of the Year. These things verily will hinder you from easily relapsing into your former Infirmities, as commonly it happens.

The XXIII. Counsel.

*Touching the Asthma or Tiffick for a Spaniard
of Bruges.*

THis old *Asthma*, as it is represented to me, proceeds from two causes; the one is a pertinacious Obstruction of the Lungs and Wind-pipes, caused by degrees through flowing in of Rheume, which is now so hardened, that the greatest part thereof resembles hail or pretty hard Cheese; another Cause is a distillation from the Brain, falling plentifully at certain periods upon the Lungs, by which the straitness of the Lungs is for the most part obstructed, and then respiration is rendred exceeding difficult, and a true *Asthma*, or it may be an *Orthopnea*; happens, which continues two or three daies, till a potion of the distillation be voided by Cough and spitting. The prevention therefore of the Fit, and the Cure of the whole Disease consists in these things following. The third or fourth day preceding the suspected Fit, we must purge him with a good strong purge, which may evacuate all the humor which causes the fluxion of the Brain, and other parts; such as this following.

Take Sage and Colts-foot Water and White-Wine, of each one ounce: Infuse therein choice Rhu-barb four scruples, Agarick trochisked one dram, Cinnamon half a dram; in the Liquor squeezed out, dissolve a dram or two drams of Diaphenicon, and half an ounce of Syrup of Hyssop. Make all into a Potion, give it on a day and hour convenient.

The day following derive the excrements of the Brain through the Nostrils with this Errhine or Nose-liquor.

Take Betony, Sage, Marjerom, of each one ounce: Orris root half an ounce; beat all together: Then pour thereon four ounces of White-Wine, squeeze out the juyce, and make an Errhine or Caput-purgium.

Let him use it in the morning and before Supper, and let him so accustome himself to derive the flegm of his Brain through his Nostrils by frequent and continual Errhines. To bring it by Apophlegmatisms through his palate is not safe, because that way is near to his Throat, by which the fluxion and distillation falls into the Lungs. Nor can Setons, so called, or Ulcers raised in any part, though they flow never so long, bring any useful derivation (forso I have known many deluded) but the most effectual and most profitable one is, that which is made the natural way, and according to the custom of Nature by the Nostrils. At the same time his Head being also shaven, or close shorn, must daily be rubbed with such dry things as dry and dissipate cold excrements, and corroborate the Brain it self, that it may not hereafter breed so many excrements.

Now it may be done after this manner:

Take Sage, Betony, Stechados, Rosemary-flowers, of each one handful: Juniper-Berries two ounces, Seeds of Annis, Cummin, Bay-berries bruised, of each an ounce: Millet one pound, Common Salt half a pound: Fry all in a Frying-pan, and then put them in a bag, which must every morning be applied hot to his Head.

If after three or four daies the signs of a distillation shall appear, or the sick Person shall not be sufficiently purged, give him the same purge again. And if neither by these Remedies the fit can be kept off, but that it will return as formerly, or more weak; give him in the Fit it self Syrup of Hyssop, or Oxymel of Squills, or Conserve of Elicampane. Anoint his Breast with Oyl of Lillies, of sweet Almonds and Dill, with a Musilage of Fœnugreek extracted in Scabious water. And let his Head be rubbed and his Neck with the bags prescribed very hot. Give him very sharp Clysters with a thin and attenuating Diet. We conceive 'tis best for him to abstain hereafter from blood-letting; for though it sometimes helps the Symptome, yet it is a very great Enemy to the Cause and the cold distillation. These therefore are the chief Remedies wherewith we help the Head, as being the Fountain that sends forth the Humor. And that the other Cause of the evil may be removed, which is rooted in the Lungs; where the Patient shall be free from his Fit, let him mollifie the thick flegm of his Lungs, and cut and scour the same away with this Syrup.

Take

Take Marsh-mallows, Elicampane, Polypody of the Oak, Carthamus seeds, Raisins stoned, of each half an ounce. Fijubes, Sebeitens Fat-Figs of each five in number. Hyssop, Savory, Origanum, Calamint Pimpernel, Colts-foot, Maiden-hair, Scabious, of each one handfull; Seeds of Marsh-mallows, Mal-lows Cotton, Liquoris shaved, of each two drams; boyl them all to fifteen Ounces. In the strained Liquor, dissolve fifteen ounces of white sugar, make a Syrup perfectly boyled. Let him take it every hour out of a Spoon in manner of a Lick-pot, without Waters.

The humors being prepared, let him every fifth or sixth day, gently purge them forthwith this other Syrup.

Take of the Decoction of the foresaid Syrup fifteen ounces; wherein infuse Senna, Agarick, each three ounces; white Ginger one dram, Orris Roots of Florence half an ounce. Then Boyl them a little, and strain out the Liquor, wherein dissolve fifteen ounces of white Sugar, and make all into a Syrup perfectly boyled. Let him take two ounces for a dose in Barley-water.

Also during the whole time of Cure he must keep a convenient Diet, wherein all such things must be avoided as breed a thick juyce, as Ox-flesh and Swines-flesh: the feet and remote parts of animals, and in a maner all Fishes and Cheese. All windy things, as Beans and Pease, much use of Herbs, Crude Fruits, such especially as will not keep, such things which treasure up watery humors, and the matter of the distillation, as chiefly immoderate drinking, much and frequent supping; so that by all means the body may be made dry, and less excrementitious. He must therefore use fleshes of good juyce, and they roasted rather then boyl'd: must drink very sparingly, and abstain from water, because it breeds Crudities and cold Humors, and fastens the humors which are settled in the Lungs and other parts; he must resume the use of Wine which he had omitted, and use that sort which is least vaporous, and does not trouble the head, and allay it well with water. Other things which may be desired as to point of Diet, may easily be collected from what has been said, which must all encline rather to heat than to cold, unless there be great suspicion of a hot Liver. When the Patient shall have diligently continued in the use of what has been prescribed for forty or sixty daies together, and rid away the grosser part of the morbidick matter; that the remaining root may be quite plucked up, it will be very profitable to put him upon a Diet-Drink of Lignum Sanctum, but let it be made after this manner.

Take shavings of Guajacum or Lignum Sanctum half a pound, Bark of the same two ounces; Infuse them twenty four hours in six pints of water, then make a Decoction to two pints, adding towards the end Betony, Sage, Marjerom, Stachados, of each one handfull: Polypody of the Oak, Raisins stoned, of each half an ounce. Strain out the Liquor; Let him take five ounces for a Dose blood-warm, at five a Clock in the morning, and at four in the afternoon, well covered in his bed; and let him eat three hours after.

Also, Take shavings of Guajacum half a pound, Infuse them twelve hours in ten pints of water. Then make a decoction to five pounds: strain out the Liquor, let him use it at his meals, and when he is thirsty instead of Wine. When he shall use this course of Diet, he must be purged every fifth or sixth day with the Syrup aforesaid, and that day abstain from the foresaid drink. Also as he lies in bed he must have the hot bags applied to his head, that he may procure heat, if not sweat in that part. Also he must frequently use the Nose-liquors or Errhines.

The XXIV. Counsel.

Of the Cough.

THis frequent and molestful Cough which brings up thick, putrid, stinking, and oftentimes bloody matter, and is attended by a non-nutrition and falling away of the Body, argues a grievous Disease of the Lungs, viz. either an Imposthume or an Ulcer, which brings a man to a true Pthisis or Consumption of the Lungs, in which respect the Issue of this Disease is not onely doubtful, but full of fear and danger, which can be by no Art avoided. Seeing he has been divers times let blood, I conceive 'tis best to abstain from Phlebotomy hereafter,

after, least his languishing strength be too much abated. When his spitting of blood shall prove more immoderate than ordinary, it must be stayed by a potion of four scruples of choice Rhubarb, half an ounce of syrup of dried Roses, with three ounces of Lambs-tongue plantane water: and the said potion will be much more effectual, if the Rhubarb be tosted. Other astringents of Bole-Armenick, and Coral, and Bloodstone, and such like, are not now useful; but all endeavour must be used, that this spittle and flegm may come up most easily with syrups and other Cough-medicines, very smooth and gentle, and with meats and all matter of Diet of like nature. For all sharp, salt, biting things are to be avoided, and whatever lies tickling, or through its acrimonious quality may exasperate his Cough: also wrathfulness, loud speakings and outcries, with immoderate exercise, because these are the things which tear asunder the Lungs, and rub open the Ulcer.

The XXV. Counsel.

Of the Palpitation of the Heart.

THis palpitation of the Heart (as it is largely, plainly and faithfully described) springs not from over great store of Blood, nor from a watry humor preternaturally shut up in the Pericardium or Heart-bag, nor from any small bunch growing thereunto, or any other of those causes celebrated by the Ancients, which press the Heart by their weight; but from a disease in the left Hypochondrium, out of which I have for the most part perceived this Disease to proceed. For there lies both the Spleen and the Sweet-bread under the bottom of the Stomach, and other neighbouring parts are full of naughty humors, not simply melancholick, which is as it were the dregs of the blood, but rather black cholerick, which have grown together by little and little of yellow choller adust, and cast into those parts: which as often as by Anger, Exercise, strong Wine, or hot meats, it comes to be stirred, it breaths out an ugly and melancholick spirit, which entering into the Arteries (of which there are many all the spleen over) it easily creeps into the neighbouring Heart. The heart being vexed and provoked by the malignity thereof, endeavours by palpitation to cast from it self that which is hurtful and troublesome, even as the brain does in the Falling-sickness. Part of the vapor being carried higher into the Brain, breeds Watchings, Dreams, Frightments with Hobgoblins, full of fear and sorrow, as if there were some admixture of Melancholy: and the truth is, this Disease, which is the original of all the evil which the Patient complains of, is very like that which causes hypocondriacal melancholy. For Crudity of stomach, sowre belchings, abundance of wind breaking out above and beneath, rumblings of the Belly, and such like symptomes, which do most of all shew themselves in the Patient when he ets any hot meats, are in no wise caused by a primary fault in his stomach; but by consent, and through plenty of black choller abounding in the left hypochondrium, and about the stomach; in which parts peradventure a man may feel somewhat contracted or bent, hard, painful or pulsative. Hence also did precede that same great extenuation of body, long Feaver, lingring, continual, and like an He-ctick. But the surest sign of all is, that all the Symptoms grow milder, and the Patient is much bettered by medicaments, purging burnt choller, by loosnesses, and breaking out of the Hemorrhoids. That therefore by imitation of these, the rest of the Cure may be compleated; I advise that he use frequent and gentle purges, such as the syrup now prescribed. To which nevertheless sometimes a dram of Rhubarb may be mixed: and that same purgation which he is ordered to take twice a week will be more effectual and profitable, if he shall take it two daies together one after another; if his strength permit, he may take it oftner; but if not, when he is co-sive let him at least use a lenitive Clyster. The day after his purgation, four or five hours before meat, you must give him one dram of old Methridate mingled with a like portion of Conserve of Bugloss. And that the Evacuation of the hurtful humor may proceed the better, it will be good (especially if any such thing shall be found there as aforesaid) to foment the left Hypochondrium every morning, and perhaps before Supper also, with this preparatory decoction.

Take Roots of Althea, Lillies, Fennel, Capars, of each one ounce: Mallows, Vio-lets, Ceterach, Wormwood, Minis, Melilot, Chamomel, Dil-tops, each one handful: Seeds of Annis, Line, Fenugreek, each half an ounce: Cyperus, Calamus Aromaticus, each two drams: Make of all a little bag; boyl it in a sufficient quantity of Water, wherein let

let a new and soft sponge be steeped, to foment his left Hypochondrium. If the place being wiped be afterward smeared with this following Liniment, it will also not a little help.

Take Oyl of Violets, Lillies and Chamomel washt in Vinegar, of each half an ounce: Musilage of Fleawort-seed and Fenugreek extract in Bugloss water one ounce; Wax a little quantity, make all into a Liniment.

Moreover he must continue that Electuary which he has already happily experimented, to mollify the Symptoms of Choler; and that only on those daies in which he neither takes Syrup nor Methridate. And for the same purpose, and to quench his Thirst (if he have any) this Syrup may be made, which will also be exceeding good, as often as either swooning or palpitation of Heart troubles him. Now it must be mingled with three or four times so much distilled Water.

Take Juyces of Bugloss, Borrage and Sorrel, of Lemons and Pomegranates, of each three ounces, white Sugar sixteen ounces. Make a Syrup, boyled to an indifferent height over a gentle fire, and aromatized with two drams of yellow Sanders.

As to matter of Diet, the Patient must be warned to be very spare in the use of Wine, which must be neither vaporous nor generous, and allaied with much water wherein Bugloss-flowers have been steeped. He must wholly abstain from things salted, peppered, Mustard, Garlick, Onions, and from all hot meat: also from Milk, and all things made thereof, and whatever meats are soon corrupted. Suppings are especially good of the broth of good juyced flesh, which must be altered with Bugloss, Borrage, Lettuce and Sorrel. He shall sometimes sup with Almond-milk made of Barley-Cream, and sweetned with Sugar, without drinking any Wine before or after. For by this means the Humors become mild and gentle, and good juyce comes in place.

The XXVI. Counsel.

Nummedness or Insensibility of the Stomach.

THe chief Symptoms whereof this Patient complains are weaknes of Body and insensibility of Stomach. Moreover, this weaknes must needs have its cause in some principal bowel: and that same bowel wherein that cause quarters is the stomach, by fault whereof the body is not nourished. For that same nummedness or insensibility, whereby the goodness and comfortableness of the meat is not perceived, shews that the stomach is grievously disordered; and that either by thick, clammy and viscous flegm sticking to those inner Coats, or from a cold distemper, whereby the sense thereof is laid asleep as it were and dalled, and the latter opinion is the more probable. For when as the stomach is scoured many times with accommodated Medicaments, and perfectly cleansed, and yet its natural sense is not restored, but the same disposition remains, and presently the same plenty of flegmatick humors grows there again, it must of necessity be concluded, that it is benumbed by a cold distemper; by which the greatest part even of good meat is turned into clammy, roaping, and very crude humors.

The Cure.

Let his Diet be hot and dry, wherein let him abstain from suppings, and all boyled and moist meats and Barley-broths; yea, and from Jellies too; also from all Fruits, excepting Raisins of the Sun. Let him use the flesh of little Birds, Partridges and Capons cut into bits, out of a preserve or Sawce which has a little Cinnamon and Nutmeg, and let all be roasted. And if he cannot bear these solid meats, let him take the juyce squeezed out of roasted Capons. Let his Wine be strong, that it may warm his stomach: Let him use no other purging medicament but Aloes, and of that let him take half a dram with syrup of wormwood reduced into three pills an hour before meat twice a week. In the daies between, let him take a Clyster, which besides other things, has six drams of Hiera simple. Also on such daies as he shall not use his pills, let him take the quantity of a Nutmeg of green Ginger in the morning, and an hour before Supper.

Item, Take Wormwood, Mints, Red Roses, of each one handfull : Calamus Aromaticus, Cyperus and Ceterach, of each two drams : Boyl them in water, adding in conclusion half so much White Wine.

Foment his Stomach herewith morning and evening with a new Spunge, Also anoint the Region of his Stomach with Oyl of Nutmegs, and then apply a convenient Plaister. And if these things shall not do the deed, apply to the Region of his Stomach a Cloth dipt in spirit of Wine, and heated : for that is judged the most excellent Medicament in a Nummedness and Palsie.

The XXVII. Counsel.

Of a Windy pain in the Stomach.

THis vehement pain of the Stomach coming by fits proceeds from much Wind, which when the pain is going away, does wont to break out with belchings. Now crudity ingenders this Wind which the Stomach plentifully gathers in time, and which sometimes is cast out by Vomit. But the weakness of the Stomach alone is not the total cause thereof. But the Cause is to be sought higher in the Liver, for it is both wholly distempered, and much obstructed, and has a Vein broken or eaten asunder, out of which blood came in times past, and was voided by vomit. By which Causes all digestion is corrupted, and many Diseases usually threatned to the Stomach and whole body. But this Disease, if it be not diligently cured, is the fore-runner of a Dropsie or Cachexy, or some more grievous Disease. Many Remedies may truly be propounded against Crudity, which nevertheless I dare not allow in this Case for fear of hurting the Liver. For neither strong Openers, nor Deterfives, nor Medicaments of Hiera or of Aloes are fitting in this case, because they grate upon the Veins, and open their Mouths, out of which afterwards the blood issues. Therefore, I conceive no Medicament safer than Rhubarb, which purges both crude flegm and choller, opens Obstructions, and stops the blood, if every third or fourth day half a dram or two scruples thereof be given, reduced into most fine powder in White-Wine or Plantane-Water : or in form of Pills two hours before meat. No purgation will be found safer, and more efficacious for to prevent the pain. It will also sometimes be good to soften his belly with a Clyster. Also this following Electuary will wonderfully strengthen the Stomach, and the good digestion of the Liver.

Take Red-Roses, yellow Sanders, Cinnamon of the best of each four scruples : Choice Pearls, Red Coral, Harts-horn, of each one scruple : Sugar dissolved in Rose-water four ounces. Make all into Lozenges, weighing two drams a piece. Let him take one in the morning, another in the evening before Supper.

If peradventure his pains shall return more violent, they must be asswaged with a Fomentation of Roses, Balauftins, Mints, Wormwood, Chamomel and Annis-seed boiled in Water and White-Wine. Other Medicaments must not be used, unless great necessity require, for fear of those things formerly expressed. Among other things pertaining to his course of Life, let him shun labor and immoderate Exercise, whether by running or hard riding ; let him shun baths, liberal and over-much eating and drinking of Wine : also all meats very hot and biting.

The XXVIII. Counsel.

Touching pain of the stomach, for M^r. de Lauzun.

That Symptome which most of all troubles the Patient, is a long lasting pain of the Stomach, more frequent and tedious in Summer than in Winter. Searching out the Cause hereof, besides those things which I was informed as touching the signs, I observed with my hand a mighty hardness spread out from the bottom of the Stomach to both Hypochondria. Suspecting this to be the cause of the pain, I thought good to try what matter it was that caused this tumor : and having given, after a Clyster, a Medicament only of Rhubarb, the stools

came away first thick, resembling pitch; then like dissolved Gallia, afterwards red, very like to thick and dreggy blood; which when they had continued of their own accord two or three daies, it was by the Judgment of all concluded, that they were not melancholick, but bloody dejections proceeding from scorched and burnt blood, which eating asunder or opening a Vein, was fallen into the hollow part of the Liver, and the Pancreas or Sweet-bread. This blood congealing without the Veins and putrifying, has caused both the tumor and the pain, the fainting Fits, and the lingering Feaver, and other Symptoms. Nor verily can I after diligent Inquisition, find any other cause of these pains and Symptoms. That same black and burnt blood being voided, the pains abated by little and little, and the Gentleman seemed without pain above twenty or thirty daies. But happening to exercise himself more vehemently than ordinary, and to grow extream angry, soon after he began to be vexed with new pains, like the former. And then giving him another Medicament to purge, the like black Stools came away resembling burnt blood, which ceasing, his pains ceased likewise. Hence the Cause of the pain was evidently known, and it was apparent, that blood came by little and little out of some Vein, especially when the Patient was heated, or fell into any vehement perturbations of body and mind; which being gathered together into some certain place, and clottering and putrifying by its malignant substance and vapor, it caused all these Symptoms; to which cause also store of winds is added, being shed forth into sundry parts of the body. This Disease, if it be not timely cured, threatens sudden death or the Dropsie. The best way of prevention is, for the Gentleman to abstain from all those things which make the blood hot or thin, or which violently move the same, or by any means make it break out of the Veins. Such are vehement and unseasonable exercise of the body, anger, wrath, fear and other disturbances of the mind: thin and strong Wine, Mustard, salt things, and all things which are peppered, and all Sawces made thereof. Also heating the body, either by extream heat of weather, or by the fire or baths, or by any great commotion. He must therefore abstain altogether from all these things, that very little or no blood may hereafter be shed out of the Veins. But if all this will not serve to prevent the Disease, so that some Rudiments of the swelling and pain may hereafter appear, as it were in a set course or period of time; than all speedy help must be applied. First with an Emollient Clyster, and then with a purge of Rhubarb only, or sometimes Senna added thereto. Let him abstain from Agarick, and especially from Aloes or Hiera Picra, that they may not open the mouths of the Veins. To which Remedies, if the Disease give not way, a Vein must be opened in the inmost part of his Arm, and that for Revulsions sake, yea, and though the Disease should not trouble him, it would be good twice every year to open a Vein at the beginning of the Spring and Autumn, to abate the boyling fervency of the blood. To the same purpose also those Syrups are good which we have prescribed of the juyces of Endive, Plantane, Knot-grass, Roses, Sorrel and sower Grapes: or if a more effectual stopping of blood be requisite, give him that powder which I prescribed in form of an Electuary, and these things are good to resist the cause. But the grievousness of the pain we must lenifie and assuage with a Clyster, which will draw away the winds, which I know are sometimes mingled with the principal Disease. Sometimes we must foment the Stomach with such things which both strengthen and expel wind; and sometimes anoint it with an Oyntment of the same faculty. The matter or Composition whereof I shall not at present set down, because it is by it self largely elsewhere declared.

The XXIX. Counsel.

Concerning a Feaver, with grievous Symptoms, for
the Countess of Ales.

A Letter of Her Physitian in ordinary.

I Hear (most learned Sirs) that the noble Countess of *Ales* being troubled with a vehement and long Disease, was Cured by your care and diligence. Now the Disease was a continual Feaver, which growing somewhat gentler on the thirtieth day, became afterwards more violent; with unquietness, watchings, looseness, raving, shortness of breath, want of appetite and thirst in a thin body, which you did not only overcome, but the whole constitution of her body was made much better than it had been before her sickness. For her stomach had swelled two years before with winds, and with a certain wheylsh moisture, distending the coats thereof, which brought a Disease by fits, very much resembling the Palpitation of the Heart. Her Womb was grown cold and hard, and her hope of Issue very little; but with Juleps and gentle Medicaments, Powders, Fomentations, Liniments, as setting all right again within, you have so ordered the matter, that her Womb presently conceived. And I doubt not but she might have been an happy Mother of a perfect Issue, if she had kept her self quiet, and studied by a more plentiful kind of Diet to encrease and restore her strength. But, she being more intent to certain controversies sprung up about her estate, than mindful either of her self or her Child, she fell into that Charybdis which *Hypocrates* has presaged to thin bodied women with Child: *Whatsoever Women, quoth he, preternaturally Extenuated, do conceive with Child, they suffer abortion before they can recover their wonted Flesh.* For it was in the sixth moneth after her Conception, when resolving to return home, she travelled every day twenty miles, till she was received into her Sisters House at *Albigniac*. In which place, presently either smitten with the heat of the Sun, or of the Journey, or wearied with the shaking of her Horse-litter; she began to loath all kind of meat, to vomit up what she had eaten, to be vexed with a pain in her Kidneys and Hips, and to be frightened with fear of an Abortion. All which being by our assistance allayed, she fell again into a continual Tertian-Agüe: the Exacerbation whereof every third day did last above twelve hours. On the sixth day, being frightened with the vehemency of the Symptoms which afflicted her in the Exacerbation, we took away three ounces of blood, after which all Symptoms were better and milder: but she voided her Child on the seventh day, with three little round balls crooked beneath, as big as a mans fist. Hereupon the continual Tertian turned into an Intermittent, which again some daies after became a double Tertian; for the Cure whereof, after light purgations, we took away four ounces of blood. At length I observed a swelling beneath the Skin of her Legs and Face: yea, and when we said that her belly was swelled, the sick Lady told us, That she had suffered abortion two years before, and that she had the same Symptoms thereupon. The swelling encreased by degrees; Also a looseness followed the same. At last the looseness being stopt, there remained a Transparent Tumor which would sound like a drum; and therefore I am very much afraid - least her strength suddainly failing, she chance to drop away.

The Answer of M^r. Fernelius and M^r. Du Mouceau.

Seeing (most learned Sir) the most illustrious Countess of *Ales* was a little while since afflicted with many and most grievous Maladies, and now having suffered abortion, and overcome so manifold a Feaver, and her looseness being stopped, and other Symptoms repressed, there seems now to remain only a suspicion of the Dropsie: if her strength fail not, we hardly think she is in so much danger of death. For she has been long ago subject to this Disease, from which she has been delivered sometimes without any help, onely by the benefit of Nature; and other whiles by the directions of Art and some slight Medicaments. We conceive her Womb is not the cause of the swelling; nor that the light Errors of her Childing

did give beginning to so grievous a Disease: but the faults chiefly of the Liver, and then of the Spleen. For in those bowels we long ago observed hard Tumors that resisted the Touch of ones hand, which our Medicines had not perfectly cured at what time she conceived with Child: and it is also credible, that in the time of her being with child they did not a little encrease, and being by degrees augmented and filled with Humors, they were the cause both of those various Feavers, and of this Dropic. And this truly the pain of her right Hypochondrium does constantly shew, which we hear to be so grievous, that she cannot endure the least touch of a finger. And therefore we conceive that in the first place all the Cure is to be directed to this bowel, and that gently, and by degrees, that not the least violence may be offered to her natural strength. For these bowels being opened, and their Diseases cured, we hope all the Tumor of her Belly will be abated. And although you being most expert in practice, cannot be ignorant of the kinds of Remedies wherewith the premises may be accomplished, yet we have prescribed certain forms to the Apothecary, which he may alter by your direction, as you shall judge the Nature of the Disease, and Patients strength do require.

Take Endive Water three ounces, White-Wine one ounce and an half: Infuse therein choice Rhubarb half an ounce, choice Cinnamon two drams; In the expression dissolve Syrup of the juyce of Cichory half a pound. Let her take it at four times, every third or fourth day a dose.

Take of the Electuary Trionsantal, the Rhubarb being encreased four-fold, two ounces. Let her take thereof sometime in stead of the former Syrup. Item,

Take Ivory one dram, powder of the Electuary of Cubebs half a dram, of Trionsantal, Diarrhodon Abbatis. and Diamargaritum Frigidum, each one scruple: White Sugar dissolved in Worm-wood-water three ounces. Make all into Lozenges, weighing three drams a piece: Let her use them in the intermediate daies.

The XXX. Counsel.

Of a Distillation and Loosness of the Peritoneum, complicated with sundry Diseases; for a Senator of Burdeaux.

Diseases quite different and disjoyned one from another, are met in a body long time ill disposed. One is a distillation from a cold and excrementitious head, sometimes into the Jaw-bones, the Neck and Shoulder-blades; otherwhiles into the Lungs and lower parts, with a Cough and shortness of breath, which portends a Tisick. Another is a Nephritick pain, vexing by fits, proceeding from gravel or a small stone; although at present I see no sign of a stone bred, and sticking in the left Kidney, which either alters and twitches the Kidney, or foreshews Nephritick pains at hand. The third Disease is an over great-loosness of the Peritoneum in the right groin, or a tearing the same in sunder by force of Coughing, which threatens the Rupture of the Guts. That evil habit of body which you gather from its swelling and dull colour, has its original from the Impurity and Obstruction of the Liver and Spleen.

Now Diseases so variously implicated cannot be cured without very great art and diligence. In the first place a Diet must be used of very good juyce, and the Patient must eat Capers, young Hares, Partridges, small Birds, Veal and sometimes Mutton; and all these rather roasted than boyled. Suppings, Broths, and much drinking must be avoided; also the eating of Figs, and such things as are of bad juyce; fulness, surfeiting and over much crudity. And his Diet must be very spare and drying, that by consuming the superfluous moisture; his body may be dried, and less subject to distillations, Cachexy, and other Diseases. To this end also moderate exercises will conduce, lest his body growing dull by ease, and idleness, should be oppressed with plenty of superfluous Humors. The use also of Medicaments is necessary, both to cure and prevent the foresaid infirmities. And twice a moneth his body must be purged with this Syrup which is accommodated to the Head, Liver and Lungs.

Take

Take Roots of Cichory, Sorrel, Butchers-Broom, Asparagus and Parsly, each half an ounce: Agrimony, Endive, Dodder, Ceterach, Betony, Stachados, Hyssop, Colts-foot, Burnet, Saxafrage, each one handful: Seeds of Endive, Dodder, Marsh-mallows and Mus-melons, also Liquoris shaven, each two drams. Make a Decoction in a sufficient quantity of Water for four doses to be taken as shall be said.

When there shall be more need of purging, and the distillation shall appear over violent, or the body too heavy; if a slender Diet will not help, add to the first dose two drams of Diaphænicon. That matter which is already got into the Lungs must be washed out and scoured away, in the intermediate dayes free from purging, by the frequent use of this following Syrup, which is also very good for the Kidneys.

Take Roots of Elicampane, Polypody of the Oak, Seeds of Carthamus, Raisins of the Sun, each half an ounce; Jujubes, Sebestens, Fat-Figs, four of each; Hyssop, Savory, Colts-Foot, Betony, Saxafrage, of each one handful; Seeds of Marsh-Mallows and Cotton, and shaved Liquoris, each three drams. Make a Decoction to a pint and half. In the strained Liquor, dissolve nine ounces of white Sugar, and four ounces of the best Honey. Make of all a Syrup well boiled, and Aromatized with Florentine Orris and Cinnamon, each two drams.

Let him take thereof frequently in a spoon in manner of a Lick-Pot, and sometimes mingled with Barley-water.

Item, Take of the powder of Electuary Diatrageacanthum Frigidum, Diatreos simple, each two drams; Aromaticum Rosatum one dram and half: Seeds of Parsly of Macedonia, Saxafrage and Basil, each half a dram; white Sugar dissolved in Pellitory water four ounces. Make all into Lozenges or Tables, of two drams weight apiece. Let him sometimes eat a Lozenge in place of the Syrup far from meals.

Now his loose Groin must as he lies on his back be fomented with such a decoction as this.

Take Pisidia, Balaustins, Cypress-Nuts, Gauls, each an ounce: Allum three ounces. Boyl them in Bean-water for a Fomentation: Then lay on the Rupture-Plaster mixed with the former powders.

Such smaller matters as I mention not, may be gathered out of the Counsels and Writings of others.

The XXXI. Counsel.

Touching of a Cachexia, or ill habit of Body beginning.

Seeing not onely the Head or Womb alone, but all the Body besides is grievously affected, badly nourished, dead and ugly coloured; all the joynts are loose and languishing, and not able to perform their Office: and the Patient is exceeding weak, frequently fainting away, with shortness of breath, especially when her body is more than ordinarily stirred: the sick Gentlewoman seems to be affected as those are that are going into a Cachexy, or are Leucophlegmarick. And therefore the cause of all these infirmities must be sought not in her head or womb, but in the principal bowels, especially in the natural, as the stomach, liver, spleen, and adjacent parts, by whose help the whole body is wont to be nourished. These therefore are very impure, and full of superfluous humors; by whose illness and impurity, all meat be it never so good is corrupted, whereby this variety of Symptoms is caused. In so great Impurity of the bowels, obstructions are much to be suspected, and observation must be made, whether her midriff or parts about her belly be not swoln, pained or hard. Unseasonable and immoderate eating of Milk and Fruits was the occasion of all these Maladies: nor can either her head or womb be rightly cured, before care be taken of her bowels, being the fountain and fomenters of their Infirmities. This diligent method of cure must therefore be chiefly followed, after which we may seek to help the parts and symptoms, if they shall not be sufficiently abated.

Take Roots of Cichory, Parsly, Fennel and Capers, Polypody of the Oak, Carthamus-seeds, each half an ounce: Hyssop, white Hore-bound, Origanum, Agrimony, Ceterach, Dodder, Maiden-hair, each one handful: Seeds of Annis, Fennel, Endive, Mus-melons, each

each one dram; Make a decoction to fifteen ounces. In the strained Liquor, infuse all night four ounces of Senna, white Agarick two ounces; Epithymum half an ounce, Ginger two drams. Let them boyl a little in the morning, and press out the Liquor, and dissolve therein one pound of white Sugar; make of all a Syrup indifferently boiled, not clarified. Let her take every fifth or sixth day two ounces, with a like quantity of Barley-water or White-Wine.

To this dose 'twill be good to add sometimes one dram of choice Rhubarb. If at any time on the daies betwixt the takings of the Syrup, she be collicive, let her take of these following pills.

Take of the best Aloes, powder of Hiera picra simple, choice Rhubarb, Agarick trochisked, each one dram; with Syrup of Wormwood, make them into a mass. Let her take two or three pints at a time, an hour before meat.

When she uses neither the Syrup nor the Pills, a Decoction or wine of Roman wormwood will be good, mingled with a decoction of Cichory. Or if she loath that, she may use this Electuary, which is both strengthening and preparative.

Take powder of the Electuary of Aromaticum Rosatum, and Diamargaritum frigidum, each two drams; Ivory and Harts-horn, each one dram; white Sugar dissolved in Rose-water three ounces. Make all up into Lozenges weighing three drams apiece.

Let her take one in the morning, and another an hour before Supper. Let her stomach and parts about her Midriff be fomented with the Oyntment.

Take Oyl of Nutmegs, Oyl of Mints, Oyl of Wormwood and Oyl of bitter Almonds, each half an ounce; with a little Wax make a Liniment.

Anoint the parts aforesaid in the morning and before Supper, and lay on a Cloath quilted with Cotton-wooll.

Let her Diet be of good juyce, attenuating, moderately heating, and not very full, lest her weak faculties be over-whelmed with plenty thereof. And therefore she must abstain from much suppings and moist meats, because they fill too much, breed crudities, and hinder the Cure. But above all, she must abstain from overmuch drink: and if thirst trouble her, it must be artificially deluded, because it is not true and natural, but counterfeit. Let her eat twice or thrice a day, and little at a time, no more than she can easily digest. The Event will shew what is afterward to be done.

The XXXII. Counsel.

Touching a Cachexy, and beginning Dropsie, for an Ambian Gentlewoman.

THIS Gentlewomans Disease arising from slight beginnings, is by little and little grown to a Cachexy and a Dropsie, wherein her belly is not very big, but the greatest swelling is in her feet and legs: yet that same old and stiff hardness of her liver which now is near to a schirrhus, is very considerable, with stomach-sickness, vomiting, want of appetite, and unquenchable thirst. For these things argue that some part of the humor is putrified in that bowel. Since therefore by fault, and corruption of the said humor, her stomach is defiled, that must be in the first place cleansed, that the aforesaid Symptoms may abate. She must be often purged with a Medicament made of Rhubarb, Senna and Agarick, which must be steeped in a convenient decoction, adding the Syrup of Damask-Roses. And she must taste such a like potion every eighth or tenth day. And that she may not think it a trouble to take the same potion so often, a laxative sy-
rup may be compounded for the same purpose, wherein sometimes the juyce of Damask-Roses may be mingled, or the juyce of Dwarf-Elder clarified by settling, especially when we would purge the watry humor. But I conceive we ought to abstain from the juyce of Iris or Gladiolus, because it is exceeding biting, and oftentimes exulcerates the inner parts. And withal in the intermediate daies, when she shall be bound in her body, a stool may be moved not only by a Clyster, but also by pills of Aloes and Rhubarb, or sometimes with a sprup made after this manner.

Take Syrup of the juyce of Cichory and of Damask-Roses, of each three ounces; choice Rhubarb infused in Horehound or Fennel-water six drams. Mix them; Let her take an ounce hereof every other day.

In this Cure, the chiefeſt care is to be taken of her diſordered Liver. Fomentations, Oyntments, Plaſters, which ſoften the hardneſs of the Liver, muſt be repeated as often as may be, the ſtrength thereof being ſtill preſerved. Make her an Electuary of the Powder of Diacubebſ and Trionſantalon with Ivory. The ſwelling of the Legs and Feet proceeding from flegm muſt be diſcuſſed with Whey and Lye, boyled with the Roots of Dwarf-Elder, Elicampane, Roſemary, Marjerom, Thyme, Laurel, Origanum, and ſuch like things. If the ſwelling of her Belly ſeem to fall into her Legs and Feet, eſpecially after walking, it were good to raiſe bladders in the moſt ſwolln places, with Leven, pulp of Figs, and a little Cantharides, which being opened, all the Humor which ſwells the belly has been ſeen to come out that way. Let her Diet be ſparing and dry, and let her drink very little.

The XXXIII. Counſel.

Concerning the Dropſie, for an Ambian Gentleman.

Touching the Conſtitution of the Gentleman our Patient, I told you before that he was troubled not only with a Cachexy, but the beginning of a Dropſie: whereby both his belly was immeaſurably ſwelled and ſtretched, and his Face bleated and diſcoloured. The beginning of the miſchief was from his Liver, with which the Spleen does confederate. For both thoſe bowels were found to be ſwolln, ſtiff and hard, and to make ſhew not only of an obſtruction, but of a Schirrhus.

I endeavouring the Cure of theſe Maladies, ordered him to keep a moderate and dry courſe of Diet; I gave him a purge, I ſtrengthened his Bowels with an Electuary which moderately opened; and having uſed theſe things only four daies, he ſeemed ſo much holpen, that he took himſelf to be already cured. But verily, that which cauſes and ſoments his Malady lurks ſtill within, viz. a Schirrhus of both the Bowels, which I would thus Cure. Every tenth or twelfth day you ſhall purge him with a Medicament that brings away choller, melancholy, flegm and watry humors. And if in the interim he be bound, give him a Clyſter; alſo in the ſaid interim you ſhall endeavour to open obſtructions both by Apozems, and alſo by aperitive and deterſive Syrops; and with Oyntments externally applied you ſhall ſoften his Liver and Spleen, being ſtill careful to preſerve their ſtrength. Following this Method of Cure thus generally propounded, you will reſtore the ſick Gentleman to his former health, whom therefore I leave to your Care and Ordering.

The XXXIV. Counſel.

*For the Chancellor of the Emperour Charles the Fiſth,
ſick of a Dropſie.*

THe Patient having naturally a very hot Liver, by a continual working of his mind, by cares, watchings and immoderate labors, and peradventure by ſome diſorders in his Diet and courſe of Life, has added an acquired diſtemper to that which was natural. And theſe Cauſes getting head, it is come to paſſ that the Liver being ſo hot, is become as it were roasted, and hot Choller does after a more insolent manner abound. Hence comes that ſome violent burning Feaver; and after that, wandring uncertain Feavers, and an Eryſipelas with thiſt, watchings, unquietneſs, and other furious Symptoms of Choller, which upon every light occaſion have vexed the Patient. And theſe things happened then chiefly, when only a diſtemper and the ſervency of the Choller did purge. But afterwards the miſchief grew higher: For the Liver has been long obſtructed with the redundancy of Choller and other Humors, and at laſt is hardened with a Schirrhus. Moreover, the proper ſubſtance thereof is depraved, and the inbred heat much waſted. For the tokens of its obſtruction is the laſting of the Diſeaſe, and the pale and whitish Excrements of the Belly. And the ſign of a Schirrhus, is, that he can lie longer, eaſier, and with leſs trouble on his right ſide than his left: for on this ſide the Liver lying, doſ by its bulk preſs and ſtifle the ſtomach as it were, and hinders the motion of the Pæcordia or Midriff, and the fetching of breath. If there be no reſiſtance to the touch, but all his belly ſeems ſoft,

soft, the Cause is a watry Humor shed out under the Peritonæum, and placed before the Liver, which makes that a Man cannot feel his Liver. Moreover, that the substance of the Liver is weakened, and its natural heat wasted and dulled, so that it is now no longer fit to nourish the Body, the Atrophy or non-nourishment of the Limbs and whole body is a sign, so that the whole body does as it were melt away. Also the Crudities long since observed, frequent weakness and decay of strength, old pains of his Feet, after that, swellings of his Legs first, and then of his Thighs, caused by flegm; a Collection of waters about his Belly, which argues not onely a Cachexy, but a true Dropsie, and of that sort which is termed Ascites.

This truly is the end of all these infirmities, towards which they long ago conspired, and which might have been foreseen by many things preceding long ago. Now therefore there is an evident Dropsie, which though it do not much distend his belly; yet seeing it is not bred by immoderate use of cold drink, nor by any effusion of blood, or fault of the Spleen; but has gone further, having so grievous a Cause as I said before, and that so manifold, contracted by little and little a long time in the Liver, and deeply rooted, it will very hardly be rooted out. Truly, when I consider with my self so long a series of causes, and the continuation of so many effects, which have introduced both leanness and consumption of the body, a feeble pulse, and great weakness, if I shall not judge the Case desperate, yet I dare hardly promise a perfect cure, thinking it sufficient, if some of the infirmities be removed, and others asswaged, that life may be as much as possible prolonged, and with as little Tedioufness as can be to the Patient. Which how it may be effected, I shall here set down: The Cure, such as can be hoped, must be performed two waies, *viz.* By removing the cause, namely, the Diseases of the Liver, and by purging out the water. The greatest care is to be had of the cause, which alone may at last bring the Patient to his end, and in the last place we must look to the water. For though all the water should be drawn away, yet more will breed as long as the cause continues. Now the Remedies to both intents shall be thus ordered. If his strength will bear it, he must be frequently purged with one dram of Rhubarb steeped in Horehound or Fennel-Water, with half a scruple of Cinnamon, adding thereto Sugar or Syrup of Cichory. For so Choller being voided by little and little, without weakning the Patient, his thirst will not onely be asswaged, and his Stomach-sickness taken away, and appetite provoked, but his Liver also being strengthened, will breed less water. Nor would I venture to give him any stronger purge, in regard of his so great weakness. In the intermediate daies, if his belly be bound, give him a convenient Clyster. If peradventure abundance of water shall stretch his Belly, it may twice a moneth be purged forth with a convenient Medicament. And in this case, we must not allow the juyce of Iris, because it burns the Throat and Gullet, nor yet wild Cucumer nor Chamelæa, because it offers violence to the body. I commend Danewort or Dwarf-Elder, the juyce whereof gently purges water without offence. Beat an ounce and half in a Mortar, and then pour on Wine or Barley-water, and then strain it, and give it him when he has no looseness. His faculties and bowels will be strengthened by the frequent use of an Electuary made of the Powder of the Electuary of Cubebs, Trionsantalon and Ivory with Sugar dissolved in Horehound-water. I would not burthen the sick Gentleman wasted by his Disease and old Age, nor oppress his wearied faculties: onely I would refer the greatest part of the Cure to a good Diet, which is of greatest moment in this case. Let his meat be flesh of good juyce, easily digested, for the most part roasted, never boyled, or very seldom. Let him abstain from supping meats, and all moist things: yet I allow him sawces to provoke his Appetite. It is good for him to eat frequently a little at a time, three or four times a day, that his weak faculties may not be over-burthened, and his meat well digested. Let him drink exceeding sparingly, that for want of drink the parts being dried, the Reins may exhaust the superfluous waters; and the matter of the bowels themselves not being hindred by impertinent Humors, may purge, amend and strengthen it self. Let his drink be not pure Wine, which most order in these cases, but such as is well allayed with water, which may both soon asswage his Thirst, and temper the heat of his Liver. And if Age and Stomach did not advise the contrary, I should bid him drink cold water, which does asswage thirst, and resist the Cause better than Wine, and yet it does not more encrease watery Humors. For it is an extream hard thing in so mighty a thirst, to content himself with little drink. But he must endeavour with all his might to do it, as a thing which has cured
many

many; use and custom will make it easie to him. For when he forbears drink, yet his mouth may be moistened by Humors drawn from other parts. Howbeit a very fit Remedy may be provided for this Inconvenience, if Mastich or any thing of like faculty be continually chewed; for it will draw much water to the mouth, not out of the Head alone as some think, but out of the Stomach and Belly: and so it will be good in many respects. Some like of Vomits to this intent: These I conceive to be the chief Heads of this Cure, to which may much be added by those Learned Physicians to whom the whole Care of his Person is committed. I can hope for no good from the Lutenian waters, because they are not remarkable for any sensible qualities, nor have any tast but that of our ordinary waters. Some have gone to those waters, and others have had them brought to them, but to no purpose; though they have drunk seven or ten pints in an hour, and sweat upon it, and diligently observed all the Rules prescribed by the Magnifiers of those Baths.

The XXXV. Counsel.

The Cure of a Cachexy, or ill habit of the Body.

ALL the Symptomes that are described do appertain to the Obstruction of the Liver and Spleen, with their hardness or stretching, with whom the stomach does necessarily consent. For so great is the impurity of the bowels and bordering parts, that all digestion being hindred and depraved, the whole body is become foul, and being over-whelmed as it were with bad Humors, it is fallen into a kind of Cachexia or evil habit. The same impurity of the bowels is cause of Inflation or puffing up, Suffocation, Stomach-sickness and wandring Winds, with rumbling and sundry pains. Finally, it is the cause of faintings and decay of strength, and it makes the Patient so frequently desire meat; for he endeavours to prevent the fainting fit at hand, by quelling the acrimony of the Humor by the debonaire quality of the meat. 'Tis hard to cure these old Infirmities, unless the Patient punctually follow the Physicians advice. In the first place he must live very sparingly, eat only threetimes a day at just distances, and meat of thin and good juyce. He must abstain from suppings and broths, all liquid things, and immoderate drinking, because the natural heat is over-whelmed with plenty of moisture, and the concoction hindred. He must choose a thin and dry Diet; thin Wine and well watered, moderate exercise, and sometimes strong, as his ability of Body can bear. Moreover, his Obstructions must be removed by Medicaments, and all the bad Humor must by little and little be drawn away into his Belly, and that by way of Epicrasis, after this manner. Let him have an Apozeme for three doses; Then let him take of Pilula de Tribus: In the Intermediate daies when he shall not purge, his Stomach and Guts must be strengthened with this Electuary.

Take shavings of Ivory and Harts-horn, of each two scruples: Choice Cinnamon, choice Pearls, powder of Aromaticum Rosatum and Trionsantalon, of each one scruple; with four ounces of white Sugar make an Electuary. Every morning, and an hour before Supper, let him foment his Stomach and parts about his Midriff with this Liniment.

Take Musilage of Fenugreek-seed extract in Endive water one ounce, Oyl of Wormwood, Roses, Mints and Capers, of each half an ounce: Mace, Cloves, Red-Roses powdered, of each one scruple; A little Wax, make all into a Liniment. Now these gentle purgations must be given him ever and anon, and continued till all the Tumor and resistency be taken away, and till all the Symptoms be asswaged, which I cannot hope before two months be over.

The XXXVI. Counsel.

The Cure of a long and often returning Feaver for one of the Emperours Court.

THis plain and distinct Enumeration of all the signs and symptomes observed in this sick Gentleman, has set before mine eyes the very express Nature of the Disease, and all its causes both internal and external. His form, figure, habitude and whole constitution of body, and the integrity of his Functions, both natural and animal do shew a laudable natural temperament: but in that the largeness of his Veins argue that it enclines a little to heat, this is happened by course of time and his age, which by little and little has made his body hotter. And now at last the heat has exceeded the bounds of Nature; by reason of great perturbations of mind, watchings, cares, troubles, which this Gentleman has undergone in the management of great Affairs. From these and the like evident causes, his Liver is inflamed and enclined to breed much Choller; which being augmented in tract of time, and coming to work and boil, is the efficient cause of all the Symptoms described. This, even in his healthy time, causes sudden and vehement Passions of mind and frequent Wrathfulness. The same is the cause why his Belly being bound, his Head is offended with a sharp vapour, and the rest of his body not having the benefit of transpiration, is sometimes hot and sometimes cold, and the palms of his hands and soles of his feet are burning hot, which is also a sign of an hot Liver. And therefore Choller so much abounding in the by-past years, has caused that the whole body as it were melting, is fallen into a certain leanness; and also that Choller not being timely purged, but kept in, and now and then putrifying, has many times caused cholerick Feavers: and that much more often in his latter years, wherein a greater quantity thereof has been collected, and when his Body has been so disposed and prepared, that upon the lightest occasions of heat, cold, Labor, Passions of Mind and Diet, it is wont to fall into these kind of Feavers: which is an argument truly of the inner Cause abounding, so as to be burthensome and very troublesome to nature. Moreover, the sort of Feaver, and the manner of its Invasion do demonstrate and express the inner Cause: for shaking at the first a biting heat, redness and inflammation of his face, with a light raving, a quick pulse, and respiration quick likewise, Urine red, and thick cholerick Stools towards the end of the Disease are all signs of superabundance of yellow Choller, which by permission makes the Blood most thin and fervent.

And therefore both the Feaver, and the cause of all the symptoms related, can be referred to nothing else but to the exuberance of Choller, and the immoderate heat of the Liver. And thereto belongs the Cure of Erysipelas, and all fluxions which fall into his thighs; because the Erysipelas presently follows the Feaver as a certain Indication thereof, since it arises from the same humor that causes the Feaver. But if so be any Oedematous or Flegmatick tumor of the feet shall seem to have discussed the Erysipelas, though he was wont to have it during his health, and was thought to be familiar; yet ought it to be suspected, and we should fear least it be the forerunner of a Cachexy shortly to follow. For commonly the Liver being obstructed with much thick Choller, does contract obscure rudiments of a schirrhous, while by degrees and insensibly they gather Head, they cast a man headlong into a Cachexia and Dropsie. And though these frequent returns of Feavers and defluxions into his thighs are inveterate, and the age of the Patient does now decline. Yet he that shall take time and diligence, he may in that so lusty and Vigorous old age of the Patient promise either a perfect cure, or very great ease: especially if nothing shall be perceived hard, nor resisting the touch in the right Hypochondrium, nor any trouble shall be perceived when he lies thereon. Now the scope of the Cure must be to open the Obstructions of the Liver, to purge out the superabundant Choller thereof by degrees, and to cool and strengthen the bowels it self. Which things he that shall seasonably perform, he shall verily take away all the Cause of the Feaver, draw dry the fountain of defluxions, and lengthen the Patients life yet many years. In the first place therefore give him a purge of the infusion of two drams of Rhubarb rightly prepared, whereby all that superfluity of crude and half-putrid humors, fluctuating in the stomach, and about the Veins of the

the Mesentery may either be expelled or corrected. In the next place the obstructions of the Liver and Spleen must be removed by these Remedies, which whiles they extenuate and open, they do withall draw the matter of the obstruction into the Belly by little and little. Such an one is Syrup of Cichory compound, which for a dose may have two scruples of Rhubarb. This must be given every other day, or every third day three hours before meat without any observance. If you shall intermit too long, all our labour will be in vain, nor shall we attain the effect we expected. For so by frequent purging, the ways being opened and loosened, nature will be gradually accustomed to carry the choller into his belly. A Syrup against burnt choller.

Take Roots of Cichory, Sorrel, Grass, Asparagus, each half an ounce: Agrimony, Ceterach, Dodder, Hops, Adiantum, Maiden-hair, of each one handful: Senna leaves cleansed three ounces. Make a decoction to half a pound; In the strained liquor, dissolve clarified juyces of Bugloss, Borrage, Fumitory and Sorrel, each one ounce and half; White Sugar one pound: make of all a Syrup perfectly boyled. And when it is boyled, add to it the expression of six drams of Rhubarb infused in Endive water, with two drams of choice Cinnamon. Let him take twice a week one ounce and an half, or two ounces for a dose; with Barley or Balm-water, without any observance of keeping within, &c.

On the intermediate daies let him be kept close with a Clyster. Against the crudity of flegm, which sometimes happens in the Winter.

Take Choice Rhubarb one dram and half; Of the best Aloes, Hiera Picra simple, Agarick newly prepared, each one dram: with Syrup of Wormwood, make all into a mass.

These kinds of purgations will leisurely void all superfluity of choller by stool, not suffering the Feaver to be kindled, nor the fluxion to fall down into his thighs; nor will they weaken but rather strengthen his natural faculties and powers, while they ease nature of the burthen of hurtful humors. In the remnant of this Summer, while the humors of the body are fluent by reason of the heat, and melted as it were, you must set upon the Cure. The other scope of the Cure will be to cool and to strengthen the whole body; and that must be done by course of Diet, rather than by medicaments. Let the Patients Diet be therefore spare at the beginning of the Cure, which may moderately cool and moisten: Hens-broth boyled with Lettuce, Sorrel, Juyce of unripe Grapes or Verjuyce, Bugloss, Borrage. Let him dip his roasted meats in a cooling Sawce; as juyce of Sorrel, sower juyce of Grapes, juyce of Pomegranates, Citrons or Oranges. Let him avoid salt things, things peppered and spiced, which burn the Liver and humors; all sugared things which most readily turn to Choller: Garlick, Leeks, Onions, Mustard, Watercresses, and all things of like nature. Let him also avoid strong Wines, and let him mix water with weaker Wines, not fearing the weakness of his stomach. Beer is sometimes good, but it must not be too stark and hard, nor too thick and new. His body being made purer by Physick, his meat may be encreased in quantity, keeping the same quality. Twenty daies being spent in the Cure, let him drink in the morning Barley broth duly prepared; and after it let him sleep if he can, and continue the use thereof two or three moneths, or if he will all his life long, after the example of those who are wont to use this much to the advantage of their Health. I conceive nothing is to be applied to his thighs, except waters or juyces of Night-shade, Plantane and Roses, with an eighth part of Vinegar, provided as much as may be that he do not let them hang down.

The XXXVII. Counsel:

Of a painful Ague.

THe sick Woman mentioned in the Letter, being afflicted by a grievous Ague, with frequent vomitings, with faintings, and an exceeding weakness of her whole body, but especially of her bowels, because she has neglected all use of Physick, and not timely used such Medicaments as were advised her, is justly fallen into most cruel pains of her belly, with which she has been long and vehemently tormented. For the morbid Cause of the Feaver out of the Bowels (where the root of all Agues lies) is fallen into the space between the membranes of the Belly and Peritonæum, and so finishing the Ague, has brought these pains. And when afterward

it could not fall out of these membranes, nor could find any ready passage, whereby it might slip into the belly, becoming as it were furious, it takes at length its course another way, and so leaps over into the head and limbs of the body, where also it moves new torments. 'Tis to be feared, lest at last occupying the Nerves and the tendons, it should breed a kind of Palsie, which *Paulus* saies, is bred of the Cholick pain, and of which I have observed many things in my Writings. These verily are of all Diseases the most grievous, which are wont to happen after Agues neglected or ill cured. But we must now come to the Remedy; And though purgations will not now do so much good as formerly they might have done, yet they must be prescribed, and those sufficiently strong, that they may revel the noxious humor out of the extrem and upper parts into the Belly: or if the Woman will not take the stronger, give her at least such weak ones as she has been accustomed unto, frequently repeating them. After purgations, pain-awaging Oyntments must be applied, and discuffers to the pained part, which may be made of Oyl of Worms, Oleum Irinum, and Oyl of Turpentine, adding such things as are good for the Palsie; also Baths will be good, wherein are boyled Cephalick herbs, but more dry Baths or Vaporaries, if the strength of the Patient can bear them. Moreover, a most stubborn Disease in a disobedient Patient does commonly portend a doubtful or bad Conclusion.

The XXXVIII. Counsel.

Of a Lingring Feaver, and divers other Diseases: Out of the French.

THat I may return a well-grounded Answer to those questions sent me touching a lingring Feaver, 'twill be worth the labor to enquire the true cause and original thereof: which seeing it has followed other intermitting and uncertain Feavers; I am of opinion, that the root thereof lies either in the Kidneys, or in some bad quality of the Liver or Spleen: for it is symptomatical, and therefore to judge distinctly thereof, we must consider the Urines. For if they be thick, gross, white, matterish; or if formerly they have been bloody, it is a sign that some Imposthume or Ulcer lurks in the Kidneys.

But if there be no disorder in them, we must seek the cause in the Liver and Spleen. For I cannot think that these Infirmities are the consequences of the Cholick or Nephritick pain, wherewith the Patient has been troubled. His thirst and desire to drink Wine rather than Beer, his loathing of meat, especially that which is most strong and nourishing, belching, rumbling in his Guts, Wind, noise of the Stomach, and absurd digestion thereof, and swooning fits do argue that the fault is in and from the stomach, both by its own proper Infirmary, and its vicinity and sympathy with the Liver and Spleen. Nor must we regard a defluxion so much (if any do fall upon the stomach) for a Catarrh alone does not bring forth so cruel accidents. The Remedies both for the Feaver and other Diseases must be gentle and gradual, the Age of the Patient and his weakness, with the length of the Disease must be considered. Every other day therefore, if his belly be bound, give him this following Clyster.

Take Marsh-mallow Roots one ounce, Chamomel flowers, Melilot, Dill, Wormwood, course Bran, each one handful: Annis-seed and Fennel seed, each two drams. Make a decoction; In a pint of the strained liquor, dissolve two ounces of Honey of Roses, Common Oyl three ounces; Make a Clyster. If it shall not sufficiently purge thick and clammy flegm, add Hiera simple five drams or an ounce.

Let him take weekly of this following Syrup, that his stomach may be by degrees scoured, and those other parts which foment this Disease. And in case he shall use it more often, it will do him the more good, for it does in no wise weaken, yea verily it lustily strengthens.

Take Roots of Sorrel, Cichory, Grass, Parsly and Polypody of the Oak, each half an ounce: Agrimony, Ceterach, Dodder each one handful: Senna two ounces. Make a decoction to half a pound; in the strained liquor, dissolve a pound of white Sugar. Make all into a Syrup perfectly boyled, whereto as it boyls, add the expression of two drams of choice Rhubarb infused in White-Wine, with an ounce of pickt Cinnamon.

Let him take one ounce and half for a dose with Barley water in the morning, three hours and

and no more before meat. Sometimes instead of the Syrup, he may use these following Pills.

Take of the best Aloes, of choice Rhubarb, of Hiera Picra simple, each one dram: Agarick prepared half a dram. Soften them with Syrup of Wormwood, and make them into a Mass.

Let him take a dram in five pills, in the morning four hours before dinner. In the intermediate daies, to strengthen his stomach and vigo-rate his bowels; it will be good for him to take liberally of this following Conserve.

Take Citron peels preserved one ounce; Preserved Myrobalans, Conserve of Roses, each half an ounce; Powder of Aromaticum Rosatum ten grains, choice Cinnamon, yellow Sanders, Ivory, Harts-horn, each one scruple: Sugar of Roses as much as shall suffice. Make all into an Electuary or Preserve, covered with Gold: Let him take a spoonful in the morning, and an hour before Supper.

To quench his Thirst, let him drink of such a Julep as this.

Take Rose-water half a pint, Juyce of Pomegranates three ounces, Of Lemons two ounces, White Sugar eight ounces; Mix all into a Julep. Let him use it in his thirst, far from meal times, with three or four times so much boyled water. Nor let him please himself with other drink, or give himself to a plentiful use of water, vulgar Ptisan or Beer: but let him content himself with the foresaid Julep, or with Syrup of Pomegranates, or the juyce of Citrons, Oranges, both at and betwixt meals.

But if he shall be taken with fainting fits, 'twill be much better to give him what has been before prescribed, than to give him Wine. Yet he may at his meals tast a little, so as no thirst may thereby follow. But, to assist his stomach busied in the digestion of meat, it will be good to give him a plain Diet, and a little at a time. And if his meat be solid, let it be sprinkled with the foresaid Juyces. Nor let a cooling Diet fright you, for this mans Infirmities will better bear cooling than hot things.

The XXXIX. Counsel.

Of a Quartane-Ague, for Queen Leonora.

From her tender years and first childhood, the Patient has been found to be subject to the Tiflick, because when the Air is moist, and there is a new Moon, a new distillation does more vehemently vex her. She has been often taken with great and dangerous fits of the Mother, wherein both her understanding and all her senses perish; and by vehemency of the suffocation, the small veins of her neck, Eyes and Face do gape, so that red spots do long after remain in those parts. But she is especially troubled with those numerous obstructions of the Liver, by means of which she has often fallen into long Feavers, and many times into a very stubborn Jaundice. Her constitution being as aforesaid, she past over all the last year in Idleness, abating nothing of her Diet, which was wont to be exceeding plentiful. Hence comes a large Harvest of crude humors and all kind of excrements and obstructions doubled, which have caused at length that she has not her Courses nor Hemorrhoids so largely, nor in so due season as formerly. By which means her whole Body began at last to grow Heavy; and fifteen dayes before she was taken with this Disease, she was troubled with a strange kind of weariness coming of its own accord. Withal, she perceived her Appetite dejected, though with divers Sawces, and delicate provocative of Appetite; she endeavoured to quicken the same, that she might live as intemperately as formerly she had done. Hereupon the Quartane-Ague seized her on the second of September of it self, without any other Disease foregoing: but with so small and obscure beginnings that hardly any body could perceive the same. The Second fit gave manifest proof of an Ague, wherein all kinds of vomiting appeared: and then we began to prepare the humors of her body both with Syrups, and Clysters, and a spare Diet. Howbeit, the third fit was much more vehement than the former, both in pont of cold, vomiting and choaking (by reason of the Tiflick mingling therewith) and tumbling and tossing of her whole Body and thirst. And therefore, in the middle
space

space between the fits we purged her gently, as also on the day, after which was her best day. And although she had every way plentiful evacuation of flegm and choller, caused by art and nature; yet her Ague manifestly encreased, and had a fourth, fifth and sixth fit exceeding sharp and lasting, so that now no welness or intermission can be discerned. For no sweat has broke out to finish the fit: Seeing therefore it partakes of a continual Feaver as well as of a Quartane-Ague, lest it should degenerate into a worser kind, we thought it good to open the Basilica Vein of her left Arm, out of which eight ounces of corrupt blood were taken, which did her much good, and she bore it well. For besides the suspicion of a continual Feaver, the suppression of her Courses and Hæmorrhoids did perswade us to let her blood with her intemperate Diet, idle Life, redness of Face, huge Swelling and fulness of Veins, by means whereof her Nose did frequently bleed. After that she had been let blood, her body seemed to be more strong, her Ague perfectly intermitting; but the fits were well-nigh as vehement as before, with loathing of meat, stomach-sickness, vomiting and bitterness of her mouth. Which Symptoms, when they would not be tamed either by Diet, Syrups or more Clysters, we thought good to purge her the second time after a new fit. After which the other fits following were more gentle, and they grew lesser and lesser gradually, so that she was not troubled either with cold or hot fits; and therefore in the whole moneth of *October* we plyed her only with a convenient Diet and emollient Clysters: save that once when she had grievous Ilness in her stomach, we boyled some Senna in her broth, and a few daies before for a light Cough proceeding from a distillation, we gave her Syrup of Jujubes. Whatever hereafter shall seem requisite for the remainder of the Cure, those that have the Care of her may in imitation hereof, of themselves prudently determine.

The XL. Counsell.

For a Quartane-Ague intangled with a Distillation.

Seeing the worthy Gentleman our Patient had been long vexed with many and sundry infirmities, and with a perpetual distillation for the most part, I conceived that I was to bend my Care not only to the Quartane-Ague wherewith he was troubled, but also to other intangled Diseases, because while they were present, the Quartane-Ague could hardly be cured, and if it were, yet would the Patient be still liable to many Infirmities whereof to Complain. Having therefore with all my might diligently considered all things, I conceived the Cure ought not to be deferred, but diligently to be undertaken, such a Cure I mean, as both by Medicaments and Diet shall cure the old Infirmities, and change his present ill constitution of Body.

Let his Diet be very dry and attenuating, and moderately hot, that it may correct this cold and snotty habit. Let him abstain from all suppings, all liquid things, boyled flesh, fish, cheese, fruits and immoderate drink. Let him feed on fleshes of good juyce, and all roasted, or seldom boyled, which if he please he may dip in Sawces of Pepper, Ginger, Cinnamon, Nutmeg, and sometimes Mustard. Let his Wine be rich and not vaporous, white Pale Claret, thin, not over much allayed with water, and let him drink thereof sparingly at meals. Let him exercise in the mornings, and let his exercise be much and strong, till his body grow hot, or begin to be weary, and let him diligently avoid cold-taking. When he wakes from sleep, let him be rubbed a long time together with dry and coarse Cloths, or sometimes with a dry hand. Let him frequently use gentle Medicaments, such as draw away raw and hurtful humors by little and little without violence. Let him frequently take Clysters with Hiera Picra simple and Diaphænicon, of each six drams; Honey and Rosemary two ounces, Oyl of Rue and of Dill, each one ounce and half, mixed up with an emollient decoction every sixth or eighth day. The day before his fit give him pills made of Hiera Picra simple, Rhubarb, Aloes and Agarick, which must be made up each a like quantity with Syrup of Wormwood, and let him take one dram for a dose, or four scruples. Sometimes instead of the pills let him be purged with this Syrup.

Take Roots of Smallage, Parsly, Fennel and Capers, Polypody of the Oak, Carthamus-seed, each half an ounce; Agrimony, Betony, Hyssop, Origanum, Hops, Ceterach, Thyme,

Thyme, Epithymum, each one handfull : Seeds of Annis, Fennel and Musmelons, of each one dram and half. Make a decoction to fifteen ounces, infuse therein all night Senna four ounces, White Agarick two ounces, Ginger two drams ; let them boyl a little in the morning, and strain out the Liquor, and therein dissolve white Sugar a pound : Make all into a well boyld Syrup not clarified. Let him take two ounces for a dose, with Borrage or some other convenient water. It is good sometimes to dissolve therein the expression of a dram of choice Rhubarb infused in White-Wine, that by little and little all kinds of humors may be separated and voided forth.

Thus therefore their use is to be continued every other day, that hardly a day shall pass, but that the day before he took a Clyster, some of the Syrup or some Pills. The sick Gentleman must not be much wearied with preparative Syrups, but every preparation must be endeavoured by a duly ordered Diet. And because sometimes he is forced to drink in his fits instead of Ptisan or Barley Water or other cooling drink, which renders the humors more compact, you must give him *Galens* Oxymel simple, or Syrup of Vinegar mixt with good store of Water : But 'tis good for him to drink as little as may be, which makes all Diseases shorter, but to drink plentifully, busies nature, and calls her from the digestion of the humors.

The XLI. Counsel.

For a Quartane-Ague complicated with a Loosness.

THIS Quartane-Ague cannot be simple, nor have its Original only from melancholy juyce, but from a mixture also of yellow Choller, which being burnt, affords matter thereunto. By the superabundance thereof vomitings were at first raised ; and when all the Humor could not be purged that way, it length it broke into the Belly, bred a Diarrhæa rightly so called, which threatens either a Tenasmus or a Dysentery. It is accompanied with Appetite dejected, weakness, and great falling away of the body ; all which are signs and symptoms of raging yellow Choller. And because all these threaten greater danger to the sick Gentleman than his Quartan-Ague, we shall in the first and mostly set our selves against them, not neglecting the Feaver in the mean time. The Loosness therefore must be stopped, not with such things as wholly bind and stop, lest by that means his Ague encrease ; but with such as help the hot Distemper of the Liver, and withal restore his Appetite and strength. The pain asswaging Clysters prescribed which will keep off the Bloody-Flux, must be frequently injected ; to which your Learned self may add Mufilage of Quince-seeds, or Starch, or Bean-meal, as need shall be. When he thirsts betwixt meals, Syrup of Lemons and Oxysaccharum simplex will be good for him ; Syrup of sower Grapes, and such like, mingled with a good quantity of Water. Sometimes the inside of a Pomgranate, or Juyce of Citrons, or a Quince-Juyce ; wherein, or in Verjuyce, or wine of sower Grapes he may dip his meat ; or it may be steeped therein, that by these things, and a convenient cooling Diet and moistning, the fervency of Choller may be abated, and the distemper of the Liver corrected so as to preserve the strength thereof. Almond-Milk made with Barley-water and Sugar of Roses every day in the morning, at least four hours before the ordinary hour of Dinner is exceeding effectual. Externally apply to his Liver either a cooling and strengthening Epithem or Ceratum Santalinum, and let him wear it a long time. Besides these, if his strength permit, give him a little Rhubarb, at convenient distances : and I would rather he should take a dram thereof in substance than the Infusion. If having used these Remedies about fifteen daies together, the Symptoms are not sufficiently tamed, you must forbid him all use of Wine, and give him any other drink rather. For I have made experiment, that many cannot be freed from such like Symptoms and the Quartane-Ague, till they leave Wine : and they were stronger with the use of Water than when they drank Wine.

The XLII. Counsel.

For a Swelling of the Spleen.

THe Symptomes related declare that the Patients Spleen has been long affected, though perhaps neither swelling or pain were perceived. But that pain also of the shoulder is the fruit of a diseased Spleen, which distending and plucking asunder the Membrane, is often found to bring such a pain; even as when the Liver is inflamed, the pain reaches to the Jugulum. The Disease of her Womb seems to have risen from the impurity of the Spleen, which has by little and little discharged it self into that part, but so that the womb it self is at last infected, and the Humor by its Acrimony has burnt the neck thereof, and of the Bladder. Which is the cause that she cannot admit the carnal imbracements of a man. And therefore that Impurity of the Spleen collected by little and little, and at length putrifying is grown hot, and has bred the tumor and symptoms aforesaid. Now this tumor, though it be troublesome by its heat, yet is it no Phlegmone, much less an Imposthume, because this bowel is not liable to such kind of swellings. Moreover, this Tumor can by no other means be taken away, than by stool; and that way it may be derived by a Syrup, which consists of Bugloss, Borrage, Fumitory, tops of Hops, &c. with Senna and Rhubarb.

The intermediate daies let her Belly be loosned with a Clyster of an Emollient Decoction, half an ounce of Diacatholicon, and three ounces of Honey.

To mollifie the Tumor, make an Emollient Fomentation and corroborating, of *Mallows, Violets, Pellitory of the Wall, some Hop-tops, Caper-Roots, Red-Roses, Betony.* Let them boil in water, and add a little Vinegar.

Also a Liniment may be made of the same vertue.

Suppurators must not be applied, because all Imposthumes in the Liver and Spleen are deadly. Let her drink no Wine; Let her use Syrup of Vinegar and Syrup of Maiden-hair.

The XLIII. Counsel.

Of Hypochondriacal Melancholy, for Msr. de Maligny.

IHear that the most Illustrious and Prudent Msr. de Maligny is besieged with many and sundry Symptoms, and those grievous and dreadful; but all which concur in the signification of one and the self-same Disease. For, though the said Symptoms have more vehemently raged a few daies since, by reason of the exceeding heat of Summer; yet they seem to have now a long time had some Rudiments and Foundations. Sadness and Fear without occasion which have frequently troubled the Gentleman, Solitariness, deep and serious Cogitation, troublesome sleeping molested with Apparitions and sundry Frightments do all proclaim Melancholy; not that primary sort which comes through fault of the Brain alone, but that other which proceeds from the Hypochondria, or parts about the Midriff and short Ribs, and is therefore called Hypochondriacal. For a manifest sign thereof, we have in that swelling, which is observed about the Spleen and Pancreas or Sweet-bread. Nor do I conceive the continent Cause thereof to be Natural Melancholy, which is the dregs of blood; but another aduft sort which is bred of yellow Choller over burned, and which we by a peculiar name term *Bilis atra*, black Choller. For this having been now a long time by little and little heaped up in the Hypochondria, is for the most part perceived to boil and work thereabouts, and then it sends from out of it self malignant vapors, which being forced against the Midriff, do in a manner stop and hinder the breath. If they go into the Heart, they cause strong palpitation and sometime Syncope: if they hap to go into the Brain, they produce Dotages next to Madness, and they joyned with a certain fear and sadness. For which causes, the sick Gentleman being as it were daunted in his mind, is very much afraid of himself, and can hardly be raised into any good

arising from a Cacochymia as well as those that spring from fulness, by blood-letting. But I have confuted these things, and established the former opinion, in a little Book which I call, *de Vacuandi Ratione*. I cannot enlarge, being variously taken up with business.

The XLVII. Counsel.

Containing the Cure of a Cachexia, or Ill-habit of the whole Body, for M^r. Malvenda, Chaplain to the Emperour Charles the fifth.

THere is a very great mixture of the Symptoms propounded, yet such is their order and connexion, that I conceive they are all in a manner derived out of one and the same fountain. The heaviness of his Head, the noise of his right Ear, suffusions and darkness of his Eyes, and a Vertigo or dizziness and swimming of his head beginning; an inability to sit constantly at his Study, are all signs and symptoms of an Head and Brain ill-affected. And the perseverance of the symptoms, and continuance of the whole Disease, do argue that in this Gentleman; it is not only by sympathie and consent of the lower parts, that his Head is affected, but by a Disease proper thereunto, and bred immediately therein: seeing it must needs be, that the Head should in time be altered by the habit and humor of the lower parts, and partake of their faults. But nevertheless, hard and slow digestion, frequent making of water, stomach-sickness, light fainting fits do belong, and are to be referred to the stomach rather, and especially the upper mouth thereof; wherein some sence also of pain is perceived, if one touch the same. Whence it is (doubtless) manifest, that the coats thereof are stuffed with many, and those naughty Humors. There are also no few signs of an ill constituted Liver, which being exceeding hot, has been many years disposed to breed Choler. Which sometimes breaks out with vomiting, and causes fainting fits; and getting into the mouth, it commonly causes bitterness: and the same humor being sometimes kept in, and putrifying, it has caused such Feavers as we have heard. By abundance of the said Choler growing thick, and of Crudities, his Liver was first obstructed; and at last all the substance thereof soaked with bad humors, and rised into a tumor, and if it continue so long without Remedy, it will turn to a Shirrhus.

I make the Liver therefore, to be the first Fountain of his Malady, out of which being full, the naughty humor redounds it to the Spleen, Sweet-bread, Mesentery, and Stomach, and other neighbouring parts, whose swelling, which may be felt with the hand, is hereby known to proceed from plenty of humors, because he is very much purged by stool with a very small Medicine. Now these parts being thus disposed, seeing not only the Head, but all the rest of the body is in a languishing and sickly condition; a Cachexy will come at last, and after it a Dropsie, if you take not diligent heed. These are the Evils which I foresee; but which may be nevertheless prevented, as all the Diseases already bred may admit of Cure in time. Now a gentle and light Cure must be applied, that by little and little, and with much time and leisure it may pluck up what has been long in rooting. Also exceeding great care must be had of his Diet, and meats must be chosen of good juyce, such as have few Excrement, and do not much fill, but may in small quantity preserve the Body in strength, that by their use Nature may not be distracted, and called away from her concoction of bad humors. Let him eat therefore such fleshes as are tender and soft, as those of young Beasts, and of Birds, which haunt the Mountains and Thickets, and not the Waters. Let them all be roasted rather than boyled, and sawced with Capers, or such like sawce. Let him refrain broths and supplings, and whatever things fill much. Also fishes, unless those of firm flesh; and yet their hard Roes will do no hurt. All Fruits are bad, saving Dates, Almonds, and Marmalade of Quinces: these he may use to shut up his Meals. Let him drink wine that is white, sweet, and not harsh, such as is your Renish wine, that is neither pitched nor brimstoned. His wine must be allayed with much pure water, that in a small quantity it may assuage his thirst, and not encrease the heat of his Liver. It will be sufficient for him to eat twice a-day, but in such rule and measure, that neither the meat burthen his stomach by the weight, nor his drink cause fluctuation

and belchings. For this Counsel will preserve his strength, and neither encrease it nor the bulk of his body, but rather extenuate the same, that so a portion of the vitious Humor may be withal exhausted, and the remainder prepared for future Evacuation. And 'twill be therefore good for him to endure hunger and thirst, and to omit suppers. Morning frictions and moderate exercises when he is fasting will be good, which also spend somewhat of the body, and provoke the natural heat to action. Let him sleep moderately, long after meat. This course of life must exactly be followed, and to an hair, till his body be perfectly cured. And if he shall accustom himself thereto longer, his health will be more firm and constant. Now the Cure which is to be performed by medicaments must be thus ordered. Let him frequently take Clysters, which in an Emollient and deterfive Decoction, shall have half an ounce of Diacatholicon, with a fit portion of Honey and Sugar. Also the self-same day let him begin with his Clysters, and the foregoing order of life. The day after, the crude and superfluous Humors which fluctuate in the stomach, first passages and belly, shall be purged with this following Medicament.

Take the expression of two drams and an half of choice Rhubarb infused in Cichory-water and White-wine, with half a dram of choice Cinnamon: therein dissolve Syrup of Mints half an ounce: Make of all a Dose; give it at six a clock in the morning. The daies following the rest of the Humors must be concocted and prepared, and that by an Electuary rather than by a Syrup or an Apozeme. In imitation of Galen, who in such Diseases as these, and in the Winter, gave Pouders rather than Liquors.

Take shavings of Ivory powdered, Aromaticum Rosatum of each two scruples. Powder of Trion-santon, and of the Electuary Letificans Galeni of each half a dram. White Sugar dissolved in four ounces of Rose-water. Make all into Tables or Lozenges, weighing three drams apiece. Let him take one in the morning, and one before Supper, and continue the use thereof long, if not interrupted with other Medicines. And in case sometimes he shall be forced to drink betwixt meals thereby to quench his thirst, seeing neither water nor Pilsan nor Beer is good for him, nothing is more excellent than Oxymel, either made by Galens prescription, or of a decoction of Parsly and Fennel roots, and a little Hyssop. After eight daies use of this course of life, and of these preparatives; purge him gently the second time with the following Syrup, which we have thus accommodated to that purpose.

Take Roots of Cichory, Sorrel, Grass, Parsley, Fennel, Capars, Polypody of the Oak, Carthamus-seeds, Raisins cleansed of each half an ounce. White Hore-bound, Agrimony, Cetrach, Maiden-hair, Bugloss, Borrage each one handful. Annis-seed, Endive, seed of Dodder and Mus-melons of each two drams. The three Cordial flowers of each one pugil. Make a decoction to fifteen ounces. In the strained liquor infuse four ounces of Senna, white Agarick two ounces, white Ginger two scruples. Choice Cinnamon half an ounce. After a small boyling press all the Liquor out. Wherein dissolve fifteen ounces of white Sugar. Make a Syrup perfectly boyled, adding at the end of boyling the expression of an ounce of choice Rhubarb, only infused in Endive-water and White-wine. Let him take one ounce and an half at a time in barley-water.

With this syrup he must purge every eighth day, augmenting or diminishing the Dose as need shall require. In the intermediate daies, if peradventure his belly shall be costive, 'twill be better to move the same with these Pills than a Clyster.

Take the best Aloes, choice Rhubarb of each two drams. Aromaticum Rosatum powder one scruple: with Syrup of Mints, make all into a soft Mass. Let him take two Pills an hour before meat.

After he has been purged the second or third time, for the more effectual preparation of the rest of the Humors, which are wont to be both more earthy and more stubborn than ordinary; besides the Electuary and Diet aforesaid, First a fomentation will be good, which mollifies, those which will soften, melt, and make fluid the said Humors, and by all means possible open the obstructions of the Bowels, preserving their strength. Now it shall be made after this manner.

Take roots of Marsh-mallows, Cichory, Elicampagne sliced of each half an ounce, Red-Roses, Balaustins, Agrimony, Mints, Wormwood, Chamomel-flowers, Dill, each one handful and an half. Anniseed, Line-seed, and Fennegreek-seed of each half an ounce. Squinanth. Cyperus, Calamus Aromaticus of each three drams. Make of all a little bag, and boyl

he would be perswaded once to leave the use of all wine, and to drink instead thereof, either juice of Pomgranates mingled with water, or a decoction of Barberies, or of sower Cherries dried (which most people keep for other uses) nothing would conduce more to the Cure. And even by this one Remedy alone, many have recovered. And above all things, he must drink sparingly, because too much fluctuation of humors, and rumblings of the belly and wind, and spitings, and crudities are encreased by overmuch drinking. Let him content himself with two spare meals in a day, viz. one at nine in the morning, the other at four in the afternoon. And at midnight, it will be very good for him to drink Almond milk made with barley-water, because it exceedingly bridles the fury of the Vapours and Humors. And in the hours betwixt those two meals, let him neither eat nor drink, but attend the use of such medicaments as have been before described. Let him shun all disturbance of body and of mind, as anger, wrath, cares, troublesome cogitations, as also strong motions of body, such as cause panting of the heart. Let him not so much as rise to stool, but use a bed-pan, &c. Cool air is better for him than extream hot, and the northern winds are better than the southern. Nor must the patient be kept in a close smothering chamber, but in one that is airy, with the windows many times set open to purifie the same. Towards the end of the Cure, when the Gentleman shall begin to walk abroad, a bath of sweet fresh water will be exceeding good, not to provoke sweat, but to the intent that his body now long time heated and dried, may thereby be cooled and moistened. These are the chief precepts belonging to the whole Cure. In imitation whereof, may easily be understood, what is to be done, in case any thing else happen in the mean while,

The XLIV. Counsel.

Touching Hypochondriacal Melancholy.

THis Symptom, as the story is related, is Hypochondriacal melancholy, which has long taken root, in that age that is most subject thereunto. Now it arises from burnt choler, which by little and little has a long time been collected in the patients Hypochondria, or parts about the small ribs and midriff: and which nature has failed timely to void by stool or vomit. The which does so offend the stomachs digestion, that it turns the greatest part of what is eaten, into wind, which doth much weary the patient both with belchings and stretchings. But withal, from the said adust and scorched humor, there frequently arises a vapour like a mist, and creeps up in the brain, causing fear, pensiveness, and sundry frightments with apparitions of Hobgoblins, &c. and when it takes its course into the whole body, it causes many pains, which nevertheless are soon allayed. The Cure of the Disease which is now to follow, must be thus performed.

Take Bugloss, Borrage, Balme, Betony, Burnet, Hops, Dodder, Ceterach, Endive, each one handful. Roots of Cichory, Polypody of the Oak, Raisins of the sun stoned, each one ounce. Of the four cooling seeds, each one dram. Of the cordial flowers and Epithymum, each one dram. Make a decoction to fifteen ounces. In the strained liquor, infuse three ounces of Senna, two ounces of Agarick, two drams of Ginger. Boyl them a little, and make an expression, or squeezing out of the Liquor, and therein dissolve one pound of white Sugar. Make a syrup perfectly boyled, not clarified, let him take every sixth day two ounces, for a dose in barley water.

It will be good of the self-same ingredients to make a syrup which is not purgative: which let him use every morning fasting to prepare the humor. But if at any times his body shall be bound in the intermediate daies, between his purgings; it may be loosened with this Clyster.

Take Mallows, Violet-leaves, Pellitory of the wall, Marsh mallows root and branch, Chamomel, Melilot, Dill, Wormwood, Origanum, each one handful. Seeds of Annis and Line, each one ounce. Make a decoction to a pint. In the strained liquor, dissolve six drams of Catholicon, honey of Roses, and of Rosemary flowers, each one ounce. Common oyl three ounces. Make a Clyster.

His body being thus gently purged four or five times, let him continue the use of this following Conserve.

Take Conserve of Bugloss and Violets, each one ounce. Powder of Electuarius latificans Galeni, one scruple; Shavings of Ivory and Harts-horn, each two scruples. Choice pearls half a dram. White Sugar as much as shall suffice. Make of all a confection, let him take a spoonful in the morning, and another an hour before supper.

When the disease shall seem now a little to decline, and all the symptoms shall appear more mild, but especially towards the end of winter, baths of good sweet water, such as may be drunk, will be exceeding useful, wherein let him sit a long time fasting, and continue them about ten or twelve daies. And let them be used at such a time as they may not provoke any manifest sweat nor heat: nor may exagitate the body, but only cool and moisten the same. Mean while, daily frictions of his whole body will be useful, and then especially when the fits shall urge. Let his diet be wholly moistening and cooling: wherein let him altogether abstain from hot things, but especially from strong and unmixed wine: for he must drink his wine very much allayed with water, and that sparingly, because much fluctation encreases wind and belchings. Suppers will be good, wherein cooling herbs have been boyled. Also barley Cream is convenient, and all kind of meats, which are of like faculty: let him wholly abstain from cares and business: Keep him from seriousness, exhilarate him with jests, and hunting, and taking the fresh Air.

The XLV. Counsel.

Of a distillation with Melancholy.

THis Gentleman is frequently troubled with a distillation, sometimes into his neck, otherwhiles into his shoulders and arms, sometimes into the hinder part of his back; but he is troubled with a more grievous symptom than all these, which is hypochondriacal melancholy. For since the time he has been freed from the quartan Ague, he was taken with a pain in his left Hypochondrium, and has ever since been so tormented with a disease in his spleen, that he was never able to lye vpon his left side. and from hence the concoction of his stomach is offended by way of contagion. His appetite has been long time much dejected. He is much troubled with belchings, and much spittle comes out of his throat into his mouth. Hence also fancies, and dreadful dreams, also fear and sadness, and a certain clownish kind of bashfulness alwaies apt to blush, and false and absurd imaginations of sad and sorrowful things.

The Cure,

Take roots of Grass, Parsly, Fennel, Smallage, each half an ounce. Bugloss, Borrage, Hops, Agrimony, Ceterach, Dodder, Adiantum, Maiden-hair, Hyssop, Origanum, each one handfull. Seeds of Endive, Dodder, and Musmelons, Liquoris shaved, each two drams. Cordial flowers, Epithymum, each one pugil. Make a decoction to fifteen ounces. In the strained liquor, infuse all night leaves of Senna cleansed four ounces, white Agarick two ounces. Turbitb bruised half an ounce. Ginger two drams. Let them boyl a little in the morning, and make an expression, wherein dissolve one pound of Sugar. Make a syrup perfectly boyled. Let him take once a week two ounces in water wherein Bugloss has been boyled.

And once a moneth, especially when the Moon is in the last quarter to purge away the matter of the distillation, add to the foresaid dose Diaphenicon one dram and half. In the daies between, you shall strengthen all the principal parts, especially the spleen, with this Electuary.

Take Ponder of the Electuary Latificans Galeni, shavings of Ivory, each one dram, ponder of Diamargaritum frigidum, and Trion-Santalum each half a dram. White Sugar dissolved in Bugloss water four ounces. Make all into lozenges of three drams apiece.

Take Oyl of Lillies, and of Capers, Mucilage of Marsh-mallows drawn in Bugloss water, each six drams. Wax a little. Make them into a Liniment.

Item. Take Gum ammoniacum dissolved in strong vinegar one ounce. Arthanita and Orris

Orris roots, each half an ounce. Plaister de Mucilaginibus, and de Meliloto, each one ounce. Make all into a plaister for his Spleen.

If the disease shall stubbornly continue, the inner vein of his left Arm must be opened; the next spring, if nothing disswade. His diet must be ordered of good and thin juice, which shall incline somewhat to coldness. For all hot things, are therefore most contrary, because they whet this same black choler bred of yellow choler over scorched, they set an edge upon it, and by encreasing the same also, do arise more grievous symptomes. Let him therefore avoid all salt things, and peppered things, and mustard, and strong wine, and unmixed wine: And let him chuse things of a contrary nature to these

The XLVI. Counsel.

Of letting Blood in case of the Itch.

The Letter of M^r. Melinus a Physitian, to M^r. Fernelius, propounding the Question.

I Am not ignorant of the multitude of your Employments and troubles. For all that are troubled with any very grievous disease do flie to you for help, as to an *Æsculapius*, or Terrene Diety: which thing would peradventure have scared another man from writing to you. But I who know the fruitfulness of your wit, and how easie a thing it is for you to answer any question propounded in the Art of Healing, do know also, That same gentleness of your manners, which gives easie access to all in a manner: and therefore I would not suffer my self to be longer vexed with that scruple, whereof I informed you in my last Letters. Which it will be more easie for you to take out of my mind, than offer it to me to be taken out: which now I entreat you again and again, that you will be pleased to do. The former Winter I fell into an ulcerous weariness, which came of it self, which practitioners (if I mistake not) do call *Pruritus*. A while after I disburthened my liver and spleen with a gentle purge. Since that time pushes have risen in sundry parts, very dry, and sticking very close, which being scratched off, black and thick blood came out. At last a furunculus or felon rising upon the lower part of my right Leg, as also an Herpes or tetter, I was provoked in my mind to use stronger remedies. Whereupon I opened a vein, and took away about three ounces of blood, and after the use of Whey, Prunes, Tamarinds, and such like things, I purged twice or thrice lustily, with Catholicon, Senna, Confection Hamech, sometimes adding Rhubarb. By which means and a few topicks, I was cured. Yet about eight daies after the former blood-letting, I again opened my Basilica vein, and took away about two ounces of blood. But the Chyrurgeon which *Claudius Lavallus* Embassador from the most Christian King, had sent for to pleasure me, and the Physitians were of opinion that I should lose much blood. Their reason was this: my blood was very bad, and my age and strength were in their prime, or not much declined: moreover they daily used such a kind of blood-letting, and that with good success. But I following the mind of *Galen* in his fourth Book of preservation of Health, where he discourses of ulcerous weariness coming of its own accord, of the Itch and Scabbiness; I maintained that I was to lose very little or no blood at all; and that for revulsion sake rather than evacuation. For thus he saies. *When there is a coming short of blood, or a proceeding beyond the same, a man may boldly let blood*: which place of *Galen* I thus interpret, when the blood by under or over boyling is either crude or cholerick, then there is no danger in large evacuation thereof. But there were none of those signs in my urine, which *Galen* a little before said were arguments of crudity. Moreover, the last winter foregoing, I did eat for the most part only once a day: therefore that small crudity would not perswade me to draw much blood. Moreover my blood is not cholerick, or defiled with black choler: which is argued both by my temper and Ague which is now declining, and the colour of my whole body which is yellowish lead-coloured; also my by-past labours, cares, and long studies, and therefore I ought not to bleed. For *Galen* also presently adds to the speech foregoing; *Where there is more, we must act more warily; where there is very much, in such we must not let blood at all*. And by and by after, he saies likewise: *It is good also to view the quantity: as for examples sake; if there be little*
good

good blood, and of the rest of the Juices very much; verily, in such persons we must abstain from blood-letting. But if other Humors are little in quantity, and blood plentyful, we may boldly let blood. This saying of Galen, has wonderfully afflicted me, to this very day. For when blood comes away impure, thick, black, or otherwaies faulty, most Physitians and Chyrurgeons are wont to take away a great quantity: but when it is pure and florid, they spare it: unless there be over plenitude in the veins, because daily experience does shew 'tis good to let blood in that case. And therefore either there is now another way of curing an ulcerous weariness coming of its own accord, than there was in the dayes of Galen (which indeed is true, if we consider what Galen has written of indifferent friction, that which is slow, and that which is interrupted with pauses, also of baths, anointings with Oyl, and other things of that Nature.) Or else men that are seated far from the Æquinoctial Circle can endure more blood-letting, than those that inhabit nearer the same.

But I am not ignorant that you are wholly taken up with sundry and weighty employments: but I know withal, that if you please to bestow a quarter of an hour upon me, you may without any trouble to your self, free me from this trouble, and explain this doubtful Question.

The Answer of M^r. Fernelius, to the Question propounded.

You are fallen accidentally into a subtil and hard doubt, which has tortured well-nigh all Practitioners understandings. Now this is started out of the writings of Galen, whereof there is so great variety, and in them so little constancy, and for the most part so many discords, that hardly any man has yet been able to understand his mind in this point. But neither he himself, if I am able to judge of the question in hand, had ever any settled and resolved judgment in his mind, as being a Man that spent all his life in study and Meditations, rather than in finding the right method of practice and exercising the same. I shall not here play the interpreter, nor endeavour to reconcile the sayings of this Author, which are diametrically opposite one to another: but what I have rooted in my mind by long experience, I shall at your request briefly open in a few propositions, which will take this scruple quite out of your mind. All plenitude of the Vessels is to be cured with blood-letting. For a Plethora which is properly so called, is only cured by this remedy: but an impure, consisting of much bad Humor, though it may be after some sort abated by purgation, yet can it not be safely nor speedily done. But immediately upon the opening of a vein, the dangers attending by reason of plenitude, are presently avoided, without any damage to the strength of the Patient. And therefore as oft as you meet with a well constituted body, with large veins swelling with much blood, you may boldly open a vein: and if the blood shall seem pure, take away the greater quantity, but if it be impure, take away the less, letting that out at several times rather than at once. A dangerous plenitude being removed, the rest of the impurity and Cacochymie may be taken away by purging. But when there is a small quantity of impure Humor in the veins, which they call *Cacochymia sine plenitudine*, a Cacochymick or badness of humors without their abundance, it requires not blood-letting, but purging. For the latter takes away the offending bad Humor; but the former removes not only the bad humor, but all humors alike, and takes away plenitude where there was none, to the great decay of the Patients strength. But then does blood-letting most harm, when badness of juice is contracted (as for the most part it is) through fault of the Spleen or Liver, as in the Jaundice, a Cachexia, or a Leucophlegmatia. For blood being taken away, though impure, yet there comes impurer in the place by much. This I suppose is enough to answer your question, which point nevertheless I have debated more largely in a work of mine. All that you bring out of Galens fourth Book *de sanitate Tuenda*, is agreeable to what I have said. Those opinions that differ, do build upon that which Galen saies, in his third Book *de Locis affectis*, of the parts affected. How that in Melancholy the middle vein in the left Arm is to be opened, and that good store of blood must be let out, if it be black and thick, but it must be spared and stopped if it be pure and thin, and that which he says in the 11. of his Method, that it is exceeding wholesome in all Feavers caused by a putrified humor to let blood. And because in the first Book of the Art of Physick to Glauco, he permits blood-letting in a quartan Ague; and in this Book of blood-letting, he cures Diseases arising

good hope of Health. The cause therefore of his palpitation of heart, and fainting fits, is not in his Heart or Pericardium, but only in his Hypochondria or Præcordia, out of which this filthy vapour, carried up through manifold Arteries, gets into the Heart; and produces these bad symptoms common in a manner to all Hypochondriacal persons. Yea, and moreover, if you diligently feel his left Hypochondrium, where it inclines to the Navil, you shall, I conceive, find much such a palpitation there, as is in his Heart: for they both arise from one and the same Cause. Moreover, flatulent belchings, rumblings in the belly, stomach-sickness, frequent spitings, and other signs of a crude Stomach, are common to all Hypochondriacal persons, and proceed from the nature and condition of black Choler.

Now the evident and foregoing causes are these: This renowned Gentleman being naturally very Cholerick, hath by Cares, deep Thoughts, hot Diet, and Intemperance therein, heaped up a great quantity of yellow Choler, which also once put him into a kind of Jaundice. At last, not being timely purged out, and the foresaid causes continuing, it turned into black Choler, which is now the continent and immediate cause of all the foresaid Symptoms. Touching the Prognostick, I may say thus much; That though this Disease be grievous in respect of the Swouning fits, and other Symptomes, and full of terror, yet will it admit cure, rather considering the Age and strength of this Gentleman: especially if he follow and obey the Counsels of his Physicians: for otherwise, if he continue the same, he will either dye of a swouning fit, or through weakness, or he will be taken mad, with that kind of madness we call *Mania*; or if he avoid these evils, he will hardly at length escape the inconveniences of a Dropsie. His Infirmities are many and different, but because the whole Cure of all does chiefly consist in two things; the first, and chiefest whereof is, that the inward cause, which as we have said, is black Choler, be quite rooted out; the other, that the swouning fits, and other grievous accidents, be so long kept off, till the Cure be performed. The Cause aforesaid, though it so much abound, that it over-whelms the Patient in a manner, yet seeing his natural forces do extremely languish, and are oppressed by the cruelty of the symptoms, it ought to be drawn away leisurely, and by little and little, and with such moderation, as his weakness may easily bear: to which intent such an Apozeme as this will be convenient.

Take *Roots of Bugloss, Sorrel and Cichory, of each half an ounce: Agrimony, Dodder, Ceterach, of each one handfull: Senna one ounce and half, Make a decoction to a pint, adding towards the end, of the three Cordial flowers, of each one pugil. In the strained Liquor infuse choice Rhubarb three drams: Cinnamon four scruples. Press out the Liquor again, and dissolve therein two ounces of Syrup of Violets. Make it an Apozeme not clarified in three Doses. Let him take it every other day in the morning, four hours at least before meat.*

The use of this sweet and gentle Apozeme will be exceeding safe, nor must he take any stronger Medicament, but continue in the use hereof, for without offence it will take away all the Cause of his Infirmary, and by little and little restore his strength. Having finished this Apozeme, let the Gentleman rest four daies, only a light detensive Clyster being injected, if peradventure he be bound in his body. But afterwards let him take again the said Apozeme, having alwaies regard to the strength and well bearing of the Patient.

On the daies intermediate, when the Patient is not purged, give him a Syrup to prepare the Humors and allay the Symptoms, made after this manner.

Take of the clarified Juices of Bugloss, Borrage, Sorrel, Fumitory, sweet smelling Apples, and Pomegranates of each two ounces: white Sugar half a pound. Make a Syrup indifferently boyled. Let him take twice a day two ounces at a time, with a like quantity of Barley-water, at least two hours before Dinner.

And these two Medicaments shall be interchangeably taken; one, one day, and the other the next. And in the interval (which I told you must be four or six daies) let him use this Confection twice a-day, which will recreate his Faculties, and abate the acrimony of the Humors, and the violence of the Symptoms.

Take Conserve of Bugloss one ounce: Conserve of Roses, Citron-peels preserved, of each half an ounce: Ivory one dram: Harts-horn, Harts-heart-bone, choice Guajacum of each half a dram: Oriental Pearls, Lignum Aloes of each one scruple: Red Coral, Crystal fine powdered of each ten grains: White Sugar as much as shall suffice. Make all into a Confection covered with Gold. Let him take a spoonful an hour and half before meat, and drink

drink a little tempered Wine after it. To this may sometimes be added a small quantity of Confectio Alkermes; though the use thereof, as of all other hot things, is in this Disease, if in any, much to be feared. For nothing does so much exasperate this Disease, as the use of hot meats and medicaments. And therefore we must content our selves (as I said before) with these Remedies, nor can we pass over to hotter or stronger without mischief, or at least damage.

Now the use of those four aforesaid Remedies must be continued, viz. Of the Apozeme, the Syrup, the Clyster, and the Preserve, just as I have before expressed, till the Patient find, himself perfectly cured.

I must speak also of Bleeding. It will be exceeding good to open a vein, if it be done seasonably, and convenient. For much Blood is contained and imprisoned in the Veins, being very hot and burned (though the Urines seem to tell another tale) which requires to be cooled and fanned: nor have the Ancients devised any thing more wholesome, than this Remedy of Phlebotomy. And therefore after the third purgation by his Apozem, if his strength seems sufficiently recreated and constant, let him bleed bloodily out of the middle, or inmost vein of his Arm, and that to the quantity of eight or ten ounces, unless he faint away, which seldom happens. For more frequently, the natural strength is found to grow vigorous and lusty, upon discharge of the burthen of Blood.

How to assuage the Symptoms.

In very deed and in truth, all symptoms cease, when the disease shall be thoroughly cured. But nevertheless, if during the time of the Cure, they shall vehemently rage, they must be pacified with a peculiar remedy, especially his palpitation of Heart, and his fainting fits. As often therefore, as either of these shall happen, rub his belly, loins, and thighs downwards, that a revulsion may be made of the vapour creeping upwards. Also let a large cupping-glass be fixed to the lower part of his belly without scarrification. Let his belly be provoked with a suppository if it be bound. And apply to his Heart and left Hypochondrium this following Epitheme.

Take distilled waters of Plantane, Roses, Purslane, Bugloss, Balm, Carduus, Vinegar, each two ounces. In these dissolve, of the three Sanders, of red Roses powdered, of Amber, each three drams; Trochisks of Camphire, half an ounce; Make an Epithem, and apply it blood-warm.

Let him take inwardly the juice of sower Pomgranate, which is a most speedy remedy in these fits. In want thereof, use the juyce of a Citron, or a Quince, or of Barberies. For by these the biting quality, and also the malignity of the humor is blunted, whereas contrariwise, 'tis provoked and exasperated with hot things; and if in the fit, there will be leisure to give him some of the Confection aforesaid, it will do him much good.

His Diet.

A good course of diet is of no mean force, both to cure the Disease and assuage the Symptoms, without which scarcely any thing worth speaking of, can be effected in this Disease. He must wholly abstain even by the counsel of *Galen* from all hot and fervent qualited meats as most adverse to him; seeing they both encrease the fomenting cause of all the mischief and malady, and exasperate and provoke the symptoms. He must therefore eat cold and moist meats, though the crudity of his stomach seems to perswade the contrary, as Veal, Kids flesh, Capons, Chickens, and young Pidgeons; and these boyled with Lettuce, Purslane, Sorrel, and Borrage, rather than roasted: or if happily he shall delight to eat these meats roasted, or Partridges, or little birds roasted, let him dip them in some cooling and astringent juices, as of sorrel, sower Grapes, Pomgranates, or Quinces, or also Vinegar. For by these, the humour is dulled, and the sowering fits kept off, as they are by sugared things exasperated. He must abstain from salt & aromack things, let his bread be neither salted, nor too much fermented. Let his wine be pale red, somewhat tart, & moderately astringent, that it may strengthen the mouth of his stomach, and drive away his fainting fits; and let it be allaid with good store of water, least it provoke vapours. Let him shun all rich, white, thin, vaporious wine, as most hurtful for him. Yea verily, if he

boyl it in a pint of Water, adding towards the end white Wine two pints. Make a Fomentation thereof for his Stomach and Hypochondria, to be applied in the morning and before Supper with Bread and new Sponges, squeezed out and heated three or four times over.

His Belly being liquid, clean and dry, this Plaister will be good to lay on.

Take Oyntment of Marsh-mallows two ounces; Ceratum Santalinum, and Ceratum Stomachium, of each one ounce and an half. Mix them together, and spread thereof a Plaister on Leather. Apply it after Fomentation is over.

The XLVIII. Counsel.

Touching a Cachexia in one of Burgundy.

Blear-Eyedness, dulness of smelling, store of spittle and flegm proceeding from the mouth, and swelling of the Legs towards Night, are signs of extream Crudity abounding in the whole Body. Which being accompanied with the Livers heat, as appears by the heat of the Patient's Hands and Feet, it argues a Cachexy very near at hand, and peradventure a Dropsie also; which having so manifest rudiments and beginnings in his flourishing age, when he comes to decline and grow old they will bring him to his end: they must therefore be opposed with all possible care and diligence. And in the first place let his Diet be pure, and let him abstain from Inwards, and Tripes, and Feet of Beasts, and from much Fish and Cheese, and all clammy roaping meat; and for about two moneths let him use no supping things: Let him avoid glutting himself, nor let him eat so greedily as he has been accustomed. He must by all means live more temperately, and pine himself, whatever come of it, and omit his Suppers. And let his Wine be little and temper'd well with water, and let him commonly use such as is white and thin. Let him use frequent and strong exercise; which if he cannot perform, let him supply the defect thereof with a thin diet. Nor can diseases which have been long a gathering in the body be cured by diet alone, unless the use of some gentle Medicaments be added. Now these following will be most fitting for his condition.

Take Roots of Smallage, Parsly, Fennel, Capers, Polypody of the Oak, Carthamus seeds, Ralsins, of each half an handful. Hyssop, Origanum, Calamint, Maiden-hair both the kinds, of each an handful. Ceterach, Hops, of each one pugil. Seeds of Annis, Endive, Dodder and Melons, and Liquoris shaven, of each two drams. Senna four ounces, Agarick two ounces, Ginger one dram. Choice Cinnamon half an ounce. Boyl them a little, then press forth the Liquor, and in the same dissolve fifteen ounces of Sugar. Make all into a Syrup perfectly boyled. Let him take once a Week two ounces mixed with a little white Wine.

In the interceding daies, when haply his Belly shall be bound, both to loosen the same and to purge and strengthen his Stomach, let him use these Pills:

Take the best Aloes two drams. Choice Rhubarb one dram. Aromaticum Rosatum half a dram. Syrup of Wormwood as much as shall suffice. Make all into a soft Mass. Let him take two Pills thereof, or four at a time one hour before Supper without Custody or observance to keep house, &c.

On the daies in which he purges not, an hour and an half before meat let him take a Table or Lozenge of Aromaticum Rosatum, both to resist Crudities and help the digestion of his meat.

For the fretting or eating that is in his lower gum, which is last of all described, mix Ginger powder one scruple; Burnt Allum one dram; Honey of Roses one ounce: Herewith, as with a Liniment rub his Gum very hard twice or thrice a day.

The XLIX. Counsel.

For the Cholick and Pain in the Back-bone, in behalf of a German Noble-man.

AS these Pains were most grievous and hard to cure, which did so cruelly torment this Renowned Gentleman; so I perceived there was doubting touching their cause, and the place effected; about which the Renowned Physitians could not agree. For though the pains were spread far and near, yet we did think there was some primary and peculiar seat thereof whereout it brake into other parts. This controverted Question, being thereto intreated, I did briefly discuss, that the seat of the pain being known, some proper Remedies might be fitted and applied thereto. In the first place therefore, his Urines being good both in substance and colour, and like to such as are natural (save that by continual lying of the Patient they were somewhat yellowish) without any gravel or flegm, did shew that the Cause of the pain did neither belong to the Uretors, nor the Kidneys. Nor verily had the pain propounded the appearance of a Nephritick pain, nor was it ever known that a pain continued in the Kidneys three years together without the coming away of any matter. Nor could this pain be any waies referred to the spleen, Liver or Mesentery, because these parts have little or no sence, and that very dull. But as touching the Guts, whose sence was very great, I saw some reason to doubt, especially because in the left *Hypochondrium* by the Gut *Colon*, a croaking noise was heard, as also in his whole Belly; and because the pain was unsettled, running sometimes into his right, otherwhiles into his left side, and because it got sometimes into his right stone, and for that his Belly seemed much blown up and distended. And all these Symptoms grew worse when his Belly was bound. Contrariwise, when the Wind broke out, or he went to stool, his Belly fell, and the pain ceased till new Wind was raised. These are (I confess) clear Arguments of a certain pain arising from Wind shut up and imprisoned in his Guts, which had both a fomenting and peculiar cause there, viz. thick, clammy, snotty flegm, sticking close to the Guts, especially the *Cecum* and *Colon*, such as had been often observed in this Patient to come from his Belly, either by it self or with the excrements. Being therefore by these Reasons induced, I could not but confess that one Cause of these pains was thick and clammy flegm sticking fast to the thick Guts. But this, verily, I counted the slighter and smaller cause, and only concomitant and attendant on a greater. For as this pain was of many sorts intangled, so was the seat and cause thereof manifold. For besides that pain which is like the Cholick, and comes from wind and flegm in the Guts, another and more principal springs from the part of the Back which is next the Heart, and from the Loins, out of which it is both diffused into the Muscles of the *Epigastrium* or part of the Belly above the Navil, and there is no small suspicion that it reaches as far as the *Vertebrae* of the Back-bone. From this so great variety of causes, I conceived the difficulty of the Cure had risen. And therefore the pain which went along his Back and Loins, and reaching from thence for the most part into the Sides, and also into the fore-parts of the Belly, and straitly binding the whole Body as it were with a girdle, did shew that all these parts were beset with the pain, and that the pain of the Belly was the cause why it could not be contracted and straitned so as to exclude the excrements. Moreover, credible it is that the cause of so far spread pains has been some cold distillation, which if not out of the Brain, yet at least out of the Head has fallen down into the Muscles of the Back and Loins: And at first on the left side; afterwards on the right. Hereupon it crept afterward by reason of the continuation of parts, into the Muscles and Membranes of the *Abdomen*. Peradventure some part thereof has also insinuated it self between the spondyles or vertebrae of the Back, as commonly it happens when these Infirmities last long. Yet I must here advise you in regard of the premisses, to see and consider whether or no the Spina be in scituation and figure according to Nature or no? whether he can freely bend himself this way and that way, and whether the parts on each side the Back-bone did feel any pain when they were touched or pressed somewhat hard? For I have had no small suspicion that his Back-bone has been either dislocated or otherwise hurt, since the Gentleman our Patient, upon the strong bounding of his Horse, felt his Back-bone bent violently backwards, and prickt with a vehement prick which struck through his whole Body.

The Prognostick.

Seeing there are two pains complicated, having different causes and seats, one belonging to the Guts, which may be termed the Cholick; the other to the Back-bone and Loins: the removal of the former may truly be hoped, especially if it be single, without any Infection of the Guts themselves. And that the greatest of its cause may be the better estimated, I would have the whole region of his Belly felt, whether or no there is any preternatural hardness therein, remembering what I have seen and written, *viz.* How that many times in the Guts thick and clammy flegm does grow together and harden into the shape of a Gut, and shut up the passage to the wind and dung. The Cure of the later pain is more hard, and the event thereof is doubtful especially if by long continuance, it shall drive it self deeper into the Back-bone. Yet it will do well to endeavour the Cure of both, and to omit nothing which according to rules of Art may rationally be thought helpful.

The Cure.

In purging out these grievous pains, diet is of no less moment than Physick, because that it consumes many superfluities which will hardly give way to Medicaments. Let therefore his diet be of good juyce, drying and attenuating, very spare; let him eat the flesh of Capons, Pidgeons, Turtles, Partridges, little Birds, young Leverets and such like, and these roasted rather than boyled. Also Sawces will do well, especially with Nutmeg, Ginger, and a little Pepper in them. Wine though it be thought to help by its heat; yet because with its Vapor and thinness it smites the Brain and Nerves, we must count it most hurtful in this case. That which is reddish, and lightly astringent must be chosen rather than that which is white, and it must be allayed with much boyled water, wherein Sage has been steeped. If the Gentleman our Patient had been so couragious to have performed all that has been said touching diet, by undergoing a Course with Guajacum, I should have had great hopes that would much have furthered the Cure, and brought it to perfection. Yet are not Sweats presently to be provoked, but a stronger Decoction must be given in the morning, and three hours before supper, instead of an attenuating Apozeme: and another smal one he must use at meals instead of Wine. If in the progress of the Cure sweat shall readily flow out, you must let it have its course, and gently provoke the same, and wipe it well off. Every seventh or eighth day, setting aside the Guajacum he must take such a like Purge as this:

Take Stachados, Betony, Sage, Rosemary, Epithymum, of each one pugil; Polypody of the Oak, Leaves of Senna cleansed, of each three drams. Make one decoction for a dose. In the strained Liquor infuse Agarick trochisked one dram and an half. In the expression dissolve Diaphenicon or Diacarthamum one ounce; Syrup of Hyssop half an ounce. Make of all a potion; give it in the morning four hours before meat.

All these things are Universals, nor must any evacuation be endeavoured by blood-letting, as which will be in this case very hurtful. But the chief Cure will lie in Topicks. And in the first place to root up the Cholick pain, every day three hours after dinner, a Clyster must be administered, made after this form:

Take Flowers of Chamomel, Melilot, Dill, Rue, Origanum, Wormwood, Centaury, of each one handful. Annis-seed, Fennel-seed, Bay-berries bruised, of each two ounces; Make a Decoction; and in a pint of the strained Liquor dissolve Hiera simple, Honey of Roses, and Honey of Rosemary-flowers, of each one ounce. Oyl of Dill three ounces. Make a Clyster, give it as hath been said. Sometimes instead of Hiera simple you may dissolve therein Hiera Diacolocynthidos.

And thus by way of exchange, the use of Clysters must be augmented and continued till the gross flegm of the Guts be quite purged away which is the material cause of the Cholick, and till this pain falling down upon the Belly and Guts, shall manifestly abate. And when the Guts shall be sufficiently purged; that the vicious quality which has been long contracted in them may be removed, and strength restored, let injections be frequently made, of a pint and half of some generous red, or other astringent Wine, and that without any Water in it, and blood-warm. Wherein sometimes two drams of Castor may be dissolved, and afterwards they may be made pure, and without Castor, Let these kind of Injections be long continued, for they will do no

hurt at all though they should continue in the Guts, and not come away. By these Remedies therefore I hope, that all the cause of the former pain will be taken away. In this time of Cure, if pains or other Symptoms shall more vehemently be troublesome, let them be asswaged with such Fomentations and other Remedies as have formerly been successfully used to that end. The Cure of the latter pain may then be successfully undertaken with Topicks, when the former shall begin to assuage. Yet still continuing the Diet with Guajacum; for nothing hinders, but that the Cure of both the pains may be undertaken and endeavoured at the same time. In the first place therefore, the Sweat being wiped off, which now towards the end of the diet with Guajacum will break forth; every morning the whole region of his Back-bone, his Back and Loins must be fomented and anointed with these Remedies, which may cut and attenuate the impacted and deeply rooted Morbifick matter, and by any means prepare the same. Make therefore a Fomentation of a Decoction of Elicampane Roots, of Juniper berries and Stœchados, of Leaves of Betony, Sage, Laurel, Rue, Marjerom, Rosemary, Origanum, Calamint, Centaury the less, all which must be boyled in simple water, adding towards the end three or four Ounces of white Wine. Apply it to his Back-bone exceeding hot with a piece of Cloth or a long Sponge, which must be steeped in the said Decoction, and squeezed out; and when by frequent repetition thereof the place shall be well heated, wipe it dry and anoint it with this Oyntment:

Take Flowers of Stœchados, Rosemary, Lavender and sweet Marjerom, of each one handful. Saffron one dram. Bay-berries bruised one ounce. Pellitory of Spain, Ginger, Nutmegs, Cloves, Castoreum, of each three drams. Reduce all to powder. Mix them and pour on eight ounces of the best Aqua-vitæ rectified, shining transparent Turpentine one pound. Put all up in a Glass Alembick, and make a Distillation with a slow fire. First receive the water, then the oyl, and keep it by it self for the use aforesaid.

If the use of a Fomentation be not easie, and it cannot all reach the pained parts, change it into a Bath to sit in, made of a like Decoction, into which all the affected parts may be plunged. When by continuation of the Fomentation and Unguent, in the mornings and before Supper, for about five or six days, the humor should be thought sufficiently attenuated, fix Cupping-glasses of a middle size on each side all along his Back-bone to the end of his Loins without any Scarrification: or fix great horns, which are frequently used among the *Germans*, that by their help the humor or any other matter may be forcibly pluck'd up from the lower parts, and brought into the skins top. Let not these Remedies be anointed till the pain of his Back and Loins appear to be mitigated, and all their motion be more free and expedite. Or if peradventure their continuance be molestful and grievous, let a resolving or discussing Plaitter be provided, such as may be made of the grounds of the former distillation, to which Gum Ammoniacum and Wax must be added, and incorporated in such a dose and quantity, as may seem requisite to the form of a Ceratum. These are therefore the Remedies by the administration and Methodical continuation whereof, the perfect Cure of both the pains may be hoped for, unless peradventure either his Back-bone be dislocated, or the pained parts at last corrupted by continuance of the disease. For when these things are so, there is none or very little hope of health.

The L. Counsel.

To facilitate Conception, for the Wife of the Provost of Marienburg. Out of the French.

THat I may propound a Remedy for all these Maladies declared by you to me; to the end you may obtain your wished desire, I have prescribed a Syrup Purgative compounded with extraordinary Art, which you are to use eight daies before the time of your breaking out of your Courses every other day in three doses, two Ounces or four silver spoonfuls at a time, in a like quantity of Barley water, or allayed white Wine, four hours before meat. And in the mean time you must keep house, and live soberly and temperately. And you must expect the breaking out of your Courses, and use no other means, save that you may with white Wine and water, or the use of some other opening Drink provoke the said Courses. When they are come
and

and over, you must have this Confection which I send you in a readines, and take thereof four mornings together the quantity of a Chesnut four hours before dinner, and drink a little white Wine allayed with Water after it. Which done, and having taken another dose when you go to bed, you must receive into your Womb the smoak of a Pouder which I have sent you, which you must cast upon burning coals, and sit over it so covered that it may go up into your Body as much as may be.

And these things being done, you must abstain from all other Remedies till the end of the Moneth; and then repeating the former course, a little before the time of your expected Courses, you must use the Syrup and Electuary aforesaid after the same manner; and so you shall continue doing for four moneths together, from the end of Winter to the beginning of the Spring. But if you shall not obtain your desired end, if you will certifie me touching the state of your Body, I will send you another kind of Counsel which shall be most convenient for that season. Let your Diet in the mean while be dry and of good juyce. If in the Intermediate daies your Belly shall be bound, or your Stomach sometimes oppressed, it will be good to use Pills of Rhubarb, Agarick and Aloes.

The Apozeme.

Take Sage, Marjerom, Nep, Bawm, Feaverfew, of each half an handful; Senna one ounce and an half. Boyl all to half a pint, adding towards the end Agarick half an ounce: Choice Rhubarb three drams; Cinnamon two drams. In the expressed Liquor dissolve Syrup of Maiden-hair, one ounce and an half. Make a clarified Apozeme, indifferently boyled.

The Fume Powder.

Take Nigella half an ounce. Storax, Benjamin, Florentine Orris, of each three drams. Cloves, Mastick, of each two drams. Mix them.

The Electuary.

Take Eringo Roots one ounce. Seeds of Nape, Onions and Bulbus, of each three drams. Pellitory Root half a dram. Ginger one dram and an half. Roots of Bistort or Snake-weed. The Reins and Tails of the Scincus, of each half an ounce. Syrup of Mugwort or de Artemisia, as much as shall suffice. Make all up into an Opiate or Electuary.

The LL. Counsel.

For a Woman troubled with Fits of the Mother.

A Woman of full and ripe Age had for many years been without the company of a Man: by which means it came to pass, that her seed being collected and retained besides the course of Nature, did putrifie, yea and attained a Malignant quality, such as both the courses retained, and any other Humors putrifying in the Womb are wont to acquire. Whereupon, filthy and malignant vapours being raised into the upper parts, caused gripings and rumbling noises in her Belly with pain: after that, subversions of her Stomach, Belchings, Hiccuppings, and sundry Vomitings. But when they oppressed her Midriff and Lungs, her breath was short, with wheezings and ratling; or if the said Vapors smote her Heart, she fell into Palpitations of the Heart or swooning fits. But if the Vapors crept up into her Brain and Mind, sometimes it caused fits of the Falling-sickness, otherwhiles raving, sometimes darkness of her Eyes, and interception of her other Senses; and otherwhiles other Symptoms of her animal Faculties seized upon her.

Take Hyssop, Horehound, Nep, Bawm, Saint Johns-wort, Betony, Mugwort, Feaver-few, of each one handful; Roots of Madder and of Paony, Mistletoe of the Oak, Polypody of the Oak, Caribamus seeds, of each half an ounce. Flowers of Rosemary, Stachados, of each two pugils. Seeds
of

of Peony and Lovage, of each one ounce. Parsnep seed two drams. Senna three ounces. Make a Decoction to nine ounces, adding towards the end Agarick one ounce and an half; Ginger one scruple. In the strained Liquor poured out, dissolve nine ounces of Sugar: make it into a Syrup duly boyled, and when it is boyled, add the expression of half an ounce of Choice Rhubarb infused in Betony Water. With Spicknard and Cinnamon, of each one scruple. Let her take thereof every third or fourth day.

In the intermediate daies, let her use a Decoction of *Lignum Sanctum*, and use her self to it by little and little. And at first let her use at meals a Decoction made only of three or four ounces of the Wood to four ounces of Water. You may boyl Raisins of the Sun there if you please with Sugar and Cinnamon. When three daies are over give her a stronger Decoction morning and evening two hours before Supper, with some of the ingredients of the Syrup boyled therein. Let her Diet be indifferent, of a milding Nature. Apply great Cupping-Glasses without Scarrification to the inside of her Thighs. It will be good likewise to rub her Thighs and Legs to draw the course of the Vapors downwards. Make Fomentations and Vaporations of some of those things in the Syrup, adding Penroyal, Origanum, Calamint, Rue and Savine. Make Pessaries of *Hiera Picra*, and juyce of Mercury leaves. A little Cochy Pills may be added or Bindweed Roots or wild Cucumer, that by them the filthy superfluities of her Womb that cleave fast thereto may be drawn away. If these things shall not succeed according to our desire, let an expert Mid wife at the coming of the fit put her Finger anointed with *Oleum Nardinum* or *Muscellinum* into the Neck of her Womb, that either by tickling the same she may provoke the putrified sperm to come out, or may extend the Neck, which in the Fit (as *Galen* sayes) is very much drawn upwards. If you would purge her Womb more forcibly, when her fit is over make injections of a Decoction of those Herbs which I mentioned in the Fomentation, adding Agrimony, Wormwood, or also a little Aloes. And to prevent the Fits before they come, give her a Potion of Waters of Nep. Bawm and Cichory sweetned with Sugar and Cinnamon, or a dram of Parsnep seed she may take in the said Waters, or in Feaverfew water. And seeing the greatest part of her Fits come from her Womb, make a Cataplasme of Fern, Lovage, Wormwood and Hyssop boyled and steeped in equal portions of red Wine and Water, where-with her whole Belly may be covered, or 'twill be better to go round about her, and to bind it fast on, that it may repress the ascent of Vapors. Sweet smells must be applied to her privy part, and stinking to her Nostrils.

The LII. Counsel.

For a Woman when with Child, and in Child-bed, being sick in her Womb.

A Woman of an indifferent fleshy habit of Body, of a middle Age, having an hot Liver, a cold Stomach, was wont to be taken with Fits of the Mother, privation of her Sense and Convulsion as it were, together with pains of the Cholick. She was likewise troubled with a Semi-Tertian Ague two moneths when she was with Child. At last she was brought to bed. She could not go to stool without the help of Art: also great store of flegm came away with her stools, and sometimes of it self: She did not sweat, nor voided any Excrements of her Brain, nor did any thing come away in her Urine. The Question therefore was, What Cure was to be used, that she may not again be troubled with those Cholick and Womb Pains.

The Answer of M^r. Fernelius:

It must needs be a very great cause which vexes the Patient with so many and such grievous Symptoms ; and I judg it to be twofold: The former is in the first Region of her body, *Viz.* In her Stomach, Guts, Mesentery, and hollow part of her Liver. For these parts are filled and obstructed with thick Excrementitious flegm, which is the cause of her so long costiveness. For sometimes it grows together in the Guts, especially in the Colon, out of which we see it sometimes drawn by force of a biting Clyster. Hence therefore proceed the Cholick pains, which possess the whole Region of her Belly. The other cause is in the heat of her Liver, for it breeds much Choler: which because it cannot be voided forth by the natural passages, because of obstructions, it flows with the blood into the whole body. And that some of it is shed into the Stomach, appears by her Vomiting, in which bitter and cholerick Excrements do sometimes come away after the flegmatick. This Choler in a flegmatick Body breeds a Semi-tertian Ague, which ending by Sweat, leaves behind it Ulcerous or Flegmonous weariness. For the blood of her great or lesser Veins, which are in the habit of her Body, is not at all purged; but is defiled with flegmatick Choler, which is the cause of these wearinesses.

The Intention of the Cure is to purge her Body of these Excrements. You must therefore prepare the Flegm with Oxymel wherein Hyssop, &c. is boyled, with an eighth part of Vinegar, and a fourth part of Honey. Also apply an extenuating and emollient Fomentation to her Belly. Let her take every day a sharp Clyster, wherein dissolve *Hiera Diacolocynthidos* and *Diaphanicon*, of each half an ounce with Honey. Sometimes give her a gentler Clyster, to soften the dung and to make her Guts slippery. Once in a Week give her a potion made of Rhubarb, *Hiera* simple and *Diaphanicon*. For *Diaphanicon* is necessary to bring thick and tough Flegm, and without it, Rhubarb will not avail. Let her use at meals thin Wine allayed with Water, and betwixt meals a Decoction of Guajacum or Wormwood, with Wine and Water. When her first Region shall be cleared, the second and third must also be freed with Remedies not much unlike the former. Howbeit, I do not think it necessary to revel the humors out of the habit of her Body into her Belly, but that this Region is to be cleansed by Sweating with a strong Decoction of Guajacum, or other mixt Remedies. Let her Diet be dry and extenuating, wherein let her abstain from all moist things. Her whole Body being well cleansed, her Womb will be cured. But if nevertheless somewhat shall seem to remain therein, it may be removed either by a suffumigation, a Pessary or other things accommodated to that end.

The LIII. Counsel.

Touching a Legitimate Birth.

Concerning a Child born on the two hundred and second day after Marriage, seeing it was perfectly shaped, and likely enough to live; a doubt and question has been raised, Whether or no it were not conceived before the time of Marriage, and so had fulfilled the compleat time of Nine moneths? Secondly, Whether a Child born within such a compass of daies is to be judged a seven moneths birth, and of a just and good Age?

To the former Question, M^r. Fernelius answers.

That the Age of a new born Child cannot by any signs or tokens certainly be known; and Abortive Children which come before their time are sometimes to be seen compleatly formed and perfect; otherwhiles they have no Hair, Nails, Lips, nor Eye-brows, their Ears being hardly sepearte from their Heads. Whereas I have likewise seen an Abortive Birth 40 daies old, as big as half a Finger, with all its Members distinct; and sometimes I have seen one in the third moneth represent a rude and undigested Lump; the Cause whereof is, the variety of the feed, and the strength or weakness of the Formative Faculty which is therein.

The latter Question he Answers.

That a Child born in the two hundred and second day is to be counted a seven moneths Birth. For *Hypocrates* and the Ancient Greeks, both Philosophers and Physitians, who diligently searched into this matter, were unacquainted with the *Roman* Moneths; for they measured them, as the *Hebrews* did by the course of the Moon: and a moneth consists of 29 daies and an half, which is the ordinary space betwixt two Moons. According to this Computation of the Year, which must be principally and punctually observed in the going of a Woman with Child, in the Decretory or Judicatory daies. In a word, in all Medicinal Observations, this Child, touching which the Question is moved, was born on the 25. day compleat of the seventh moneth. Nor is it necessary (that it might be counted a seven moneths Birth) for it to abide in the Mothers Womb seven moneths compleat: and seven daies over or under breaks no squares in this way of Account. For so *Ptolomeus* and other most Renowned Astrologers have delivered in their Writings, *viz.* That the forces of the Stars which govern us do not consist in a moment, but are contained within their Limits, and therein have power to work their Effects. And that a Child born in the seventh moneth will live, besides that it is celebrated by the Authority of *Hypocrates* and all Physitians, I have likewise by long Experience observed the same to be true. The reason whereof must be demanded of the Astrologers, who place the first moneth of Conception under the Dominion of *Saturn*, and the seventh under the power of the *Moon*, which bestows life and strength upon all Living Creatures.

The LIV. Counsel.

In the case of Hemorrhoids.

THose Hemorrhoids by you described which flow without pain are blind and inward: and I conceive none of them are to be seen outwardly. And they (seeing they have been very long accustomed, *viz.* twelve years, to flow liberally) they ought not by any means to be quite stopped, lest those Inconveniences should follow which *Hypocrates* mentions and fears. But seeing at this time immoderate running does weaken the body, and very much cool the Patients Liver, by which means the Jaundice, and perhaps a Cachexia does now appear and shew it self at hand; it seems not only profitable but very necessary to stop them. Yet so, that every third or fourth moneth somewhat may be suffered to run.

They may profitably be stopped in this Constitution of our Patient to me described, not by Revulsion with blood-letting from the Arm, or by Cupping-Glasses fixed to the *Hypochondria*; nor with Powders, Electuaries or Potions which are astringent but with these very light Remedies, which will do the deed, I question not. And therefore if any Purgation shall seem necessary, none will be fitting but what shall be made of Rhubarb.

Take Waters of *Roses* and *Lambs-tongue Plantane*, of each one ounce. Infuse therein four scruples of *Rhubarb*, one scruple of choice *Cinnamon*. In the strained Liquor dissolve choice *Rhubarb* powdered, two scruples; Syrup of dried *Roses* half an ounce. Make a Dose.

Take *Plantane*, *Knot-grass*, *Red Roses*, *Balaustins*, of each one pugill. Make a Decoction in Milk. In the strained Liquor dissolve *Bole-Armenick*, *Bean-meal*, of each one ounce and an half. Make a Clyster in form of a Pultis, which he must keep a long time: and it must be repeated twice, thrice or four times, if the first shall not sufficiently stop the Flux. If you would have it more compounded, add thereto *Dragons blood*.

Also 'twill be good externally to apply a Cataplasim to his Fundament of the best *Bole-Armenick*, which must be dissolved in Vinegar with *Lambs-tongue Plantane*, and the white of an Egg; or in juyce of *Plantane* and *Knot-grass*. Which things will be likewise good in a Clyster.

In course of Diet, 'twill be good to avoid strong Wine, and very thin; and all meats that inflame the blood. He must eat sparingly, lest his strength now much impaired should be oppressed with too much food, and that blood encrease not too fast upon him. He must avoid vehement exercise, Anger, Sadness and Sorrow, and whatever things inflame and agitate his blood and spirits.

The LV. Counsel.

Concerning an Exulceration of the Kidneys and Urinal Passage, with a fleshy Knob growing therein.

THis Gentleman was troubled with two Diseases, which are very near of kin one to another: The one was an Exulceration of his Kidney; the other was a light Exulceration of his Yard or Urinary Passage, with a fleshy Knob growing thereto. That one or both his Kidneys were exulcerated, was known by his Urine, which was white, thick and matterish, in which the matter or quittor was seen to settle in the bottom. Also because the last Summer, after vehement Exercises and Labours, he voided bloody Urines. For when the Ulcer was bred, and that (as I conjecture) by a stone fretting his Kidney, which a few moneths before grew in his Kidney. Now the Ulcer being grown fouler, instead of blood there came quittor. The signs of the Ulceration of his Urinary passage are, that same heat and sharpness which vexed him when he made water, and in that many moneths before he had been vexed with a foul and virulent Gonorrhæa, which is wont to exulcerate this passage. And that to the Ulcer ill cured, there grew a fleshy Knob, was known by the difficulty of his making water, which came away in a stream no bigger than a very small thread, and because sometimes his Urine was quite suppressed. To cure these intangled Diseases perfectly, was no easie matter. An Ulcer of the Kidney does hardly ever deal, because it is a Spermatick part; and the fleshy Knobs which grow in those parts are with great difficulty, and very hardly cured. Yet sometimes a Purgation does good, either of Cassia alone, or sometimes with an addition of Rhubarb: The day after, two drams of washed Turpentine will be good. Also to sup in the morning a Decoction of Marsh-mallow Roots and Red-Vetches, with Honey of Butter, will cleanse the Ulcer in his Kidney. Hydromel simple will do the same, if either he drink it to quench his thirst, or take a draught at the beginning of his meals instead of Beer. I do not approve of more vehement Remedies: The fleshy Knob must be rooted up, by frequently thrusting in a Catheter, that by the roughness thereof some portion of the said Knob may be gradually worn off; for this kind of Cure is short and ready. Which nevertheless, if the Patient cannot endure, a Wax-Candle must be thrust in, which will dilate the passage, and flatten the Knob. And it may sometimes be smeared with a Pouder, which will both consume the Knob, and sodder up the Ulcer, such as is this following.

Take Cuttle-bone, Tutty prepared, of each two drams; burnt Harts-horn, wash'd Aloes, of each one dram; burnt Allum half a dram. Make them into a powder. Let him use it dry, or mixt into the form of an Oyntment with Honey of Roses.

Also frequent Injections will be good, of compounded and distilled Allum-Water; such as is usual in this case.

Take Crude Allum two ounces, Jayce of Plantane and Purslane, of each a pint; Rose and Plantane-Water, of each three ounces: beat all together with the whites of three Eggs. Put them in a Glass-Alembick, and distil them with a slow fire.

In these contumacious Diseases, there needs great Diligence, Constancy of Mind, and length of time.

The LVI. Counsel.

Concerning Mattery Urine coming from the Kidneys.

THat Urine which we perceived to be made thick and white, is truly mattery: For upon setting, white, smooth, and quittor is seen in the bottom of the Urinal; which is a sign of an Imposthume or an Ulcer. Which nevertheless is neither in the Yard, nor in the Bladder, nor in the Uretors. But seeing it is without any sence of pain, we thereby gather that it is in the Kidneys alone. And from them pretty large stones, and bloody Urine have often proceeded, which did then declare that an Ulcer was caused by the grating of stones upon the Kidney. And now that which comes away is sordid and purulent: A perfect Cure is hardly to be hoped for; and diligent heed must be taken, that the quittor be not stopt nor kept in; for by that means rebounding and flowing back into other parts, it becomes the Cause of grievous Symptoms. The best way will be gently to purge the Ulcer, and to procure a continual and free passage for the quittor. Let him therefore abstain from all vehement motion of his Body and Exercise; from salt, hot and biting things, lest the Ulcer be exasperated. It will be good for him to use Hydromel for his Drink, especially to make his first draught thereof, and sometimes instead thereof, a Decoction of Barley will be good. Afterwards let him use these following Medicaments.

Take the Pulp of Cassia Fistula ten drams, with Sugar or Electuarium Diatragacanthi Frigidi, make it into a Bolus. Let him take it a chosen day, two hours before Dinner. Or thus,

Take Pulp of Cassia new drawn six drams, powder of Rhubarb one dram; With Sugar make them into a Bolus.

Item, Take clear Venice Turpentine two dsams and an half; wash it in water of Roses or of Winter Cherries. Let him take it the day after his purgation out of a spoon, with Syrup of Maiden-hair.

When his Belly is bound, or his Kidneys burthened; on other daies give him this Clyster.

Take of the four Emollient Herbs, Chamomel, Melilot and Dill, each one handful; Seeds of Annis, Line and Fennugreek, each half a dram; Make a Decoction to a pint. In the strained Liquor, dissolve Hiera Picra simple and Diacatholicon, each five drams. Honey of Roses, red Sugar, each one ounce; Oyl of Violets three ounces. Make all into a Clyster.

When the Moon is in the wane, three or four mornings together let him take of this Decoction.

Take red Vetches three ounces, Marsh-mallow Roots one ounce, Tops of Colewort one handful. Boyl all to half a pint; In the strained Liquor, dissolve two ounces of the best clarified Honey. Let him sup it up.

The LVII. Counsel.

For Pain in the Kidney. Out of the French.

THat you may prevent the Pain of your Kidneys, to which you have been long subject: in the first place you must avoid all gross and obstructing meats, from Swines-flesh, Beef and Venison, especially when they are salted. Also from all Fish that have no scales, and which breed in muddy waters; for Beans and Pease, and all Crufts, dough-baked Bread, Cheese, and all raw Fruits; also from black and thick Wine, and that which is rough or sweet. But you may eat of light meats, and such as are easie of Digestion, as the flesh of young Creatures rost or boyled: Let roots of Parsly or Fennel be boiled in your broths. Also sometimes, but seldomer they may be made with Capars, Asparagus and Hops. Also you may use Sallets of Burnet, Saxifrage, Garden Swines-Cresses, and other like Herbs well seasoned with Oyl and Vinegar. Drink White-Wine rather than Claret, especially which is high coloured, not strong, but

but thin and weak, and indifferently allayed with water, not neglecting the Care of your whole Body. Eat and drink soberly; for fulness is dangerous in this and other Diseases. It will be sufficient to eat thrice a day. And at Breakfast it will be good to eat oftentimes new Butter with Bread untoasted or toasted, and to sprinkle Sugar upon it, and drink White-Wine after it. If you can sometimes swallow certain bits of unsalted Butter, they will help both your Belly and Kidneys. Also Broths made of the foresaid Roots will be good; nor will it hurt you, an hour after some such kind of Food to exercise your self moderately for the space of an hour, and to do so likewise before and after Supper. 'Tis not good to sleep in the day time, nor in the night to lye on your back, nor heat them internally or externally, either with bed cloaths or the fire.

But besides these Rules, some peculiar Medicaments will be good, and in the first place I have prescribed a Powder; a spoonful whereof is to be taken two hours before Broth, either alone or in White-Wine, and that once a week, especially when you are costive. But there is nothing will do you more eminent service, than if six daies before the last Quarter of the Moon you shall take this Clyster.

Take Roots of *Marsh-mallows* one ounce, Roots of *Elicampagne* half an ounce, *Mallows*, *Violet-Leaves*, *Pellitory of the Wall*, *Beets*, *Mercury-leaves*, each one handful; *Flowers of Chamomel*, *Melilot*, tops of *Dill*, each one pugil; *Seeds of Annis*, *Fennel*, *Caraway* and *Cummin*, each three drams: Make of all a Decoction. In a pint of the strained Liquor, dissolve *Hiera simple* six drams; *Diaphanicon* three drams, *Honey of Roses* two ounces, *Oyl of Chamomel* and *Dill*, each one ounce and half; Make of all a Clyster. Take it in the morning, when you rise from bed, on the day aforesaid.

The day following a purging Potion will be good, made after this manner.

Take *Pellitory-Water* two ounces; Infuse therein choice *Rhubarb* three scruples, best *Cinnamon* half a dram. In the Liquor squeezed out, dissolve the Expression of two scruples of *Agarick* trochisked, in *Betony-water* infused: *Diaphanicon* one dram, *Syrup of Maiden-hair* half an ounce. Make all into a Potion for a Dose.

The day following take a Clyster: And the daies being over, wherein you are to rest; on the fourth, fifth and sixth daies, which will be the three last of the Moons course; you shall take every morning three or four hours before meat one dram of the Mass of Pills which I have prescribed for you, made up into five pills. Or if the bitterness be too troublesome, dissolve it in White-Wine; nor need you keep your bed therefore.

Take Choice *Gentian Root* one ounce, reduce it into very fine powder; of which, with *Syrup of Maiden-hair*, make a soft mass of Pill-stuff. Wrapt it up in Leather, and keep it in a Box for the use aforesaid.

These three daies being over, which are the last of the six aforesaid, it will not be amiss, if you please to make a Decoction of *Vetches* and *Marsh-mallows*, which I formerly advised, and to drink it four or five daies together. In the mean space you must keep an exact course of Diet, according to what has been formerly said, and all the foregoing Remedies must be repeated near the ends of three moneths one after another, if you look for a perfect and compleat Cure.

The LVIII. Counsel.

For a Duke of France troubled with the Gravel in his Kidneys.

THE voiding of Gravel in Urine, and the beginning of the stone in the Kidneys, in a constitution of body very cholerick, and the blood thereof being thick and earthy, is for the most part over scorched, ought thus to be prevented; seeing thick and clammy blood is the matter that breeds the Gravel, and the heat of the Liver and Kidneys is the efficient cause by burning the said blood, and so turning the same into Gravel and Stones. He must keep a cool and moist diet, which does withal scour and moderately extenuate, without manifest heat. The flesh of Chickens, Pigeons and Veal boyled with Lettuce, Marsh-mallows, Mallows or French-barley, and the broth thereof taken in the morning is exceeding good, and sometimes Barley-cream with Sugar. And at other times he may eat flesh roasted or boyled, and steeped

or dipped in the juyce of Lemons; which if it be not to be had, juyce of four Grapes, or of Sorrel, and sometimes Vinegar may supply its place. Let his Wine be thin and weak, and very well tempered with water. For many profess they have been cured of these Infirmities, by abstaining from Wine, and drinking only Water. To rub the Back and Loins in the morning, also strong Exercise, and riding on a trotting Horse dislodges the Gravel and Stones, and suffers them not to grow together in the Kidneys. Howbeit, in as much as Diet alone cannot sufficiently prevent this Disease, sometimes he must also take Physick, which being moderate in heat and dryness, may bring away the morbid cause by stool, and temper the heat of the Kidneys, and bring away the Gravel by Urine with ease. Now they must be compounded after this manner.

Take Roots of Butchers-Broom, Asparagus, Grass, Marsh-mallows and Parsly, each half an ounce; Clary, Betony, Burnet, Saxafrage, Pellitory, Maiden-hair, each one handful; Seeds of Basil, Parsly of Macedonia, Gromwell, Broom, Burdock, Mountain Osier, Liquoris shaven, each two drams; Raisins stoned, Polypody of the Oak, each one ounce; make a Decoction to fifteen ounces. In the strained Liquor, infuse new Cordial Flowers, each two pugils, Senna leaves three ounces, Agarick two ounces, white Ginger two scruples. Let them boyl a little, and then press out the Liquor, and dissolve therein one pound of white Sugar; make all into a Syrup perfectly boyled. Let him take every tenth day one ounce for a dose with Barley water, or a Decoction of Annis-seed.

Of the same simples, the purgers being left out, make another Syrup, which he must take in the mornings of the intermediate dayes mingled with Barley-water, to purge his Kidneys. I allow not the use of Turpentine, because of the heat of the Patients Liver, whereby it will be easily inflamed. If haply he shall loth the frequent use of the Syrup, instead thereof, let him use this Electuary.

Take of the four great cold Seeds cleansed, Liquoris shaven, each one scruple; Seeds of Burnet, Basil, Parsly of Macedonia, Nutmeg, each half a dram; Aromaticum Rosatum two scruples, white Sugar dissolved in Winter Cherry-Water three ounces. Make all into Lozenges or Tables, weighing three drams apiece. Let him take one in the morning three hours before meat, and drink after it a little tempered Wine.

Let his Kidneys in the Summer time be cooled with this Fomentation.

Take stilled waters of Lettuce, Water-Lillies and Roses, each three ounces: Vinegar two ounces: mix them. Foment his Kidneys therewith morning and evening blood-warm.

In the Winter this following Liniment will be more convenient.

Take Oyl of Violets, Water-Lillies and Roses washed in Vinegar and Rose-water, each one ounce; Musilage of Marsh-mallows drawn in Pellitory water six drams, a little Wax: make a Liniment to smear his Kidneys morning and evening,

If peradventure his Kidney-pains shall return, give him such a Clyster as that by me prescribed. Which being come away, apply a Fomentation to the part pained, of the decoction of the bags prescribed. And if this shall not do the deed, apply a large Cupping-Glass to the part pained without scarrification. And if neither by this means the pain grows mild, let fitting Cataplasms follow and Baths to sit in, whose power to assuage pains is most effectual.

The LIX. Counsel.

For the Strangury.

THis same Stangury wherein the Patients Urine is said to come away troubled and impure, with very great pain, whether the setlings at last be matterish or snotty and flegmatick, is neither caused by the Crudity of the Stomach, nor by that flegm which has been wont to fall into his Joynts. For so thick a redundance of Excrements could never flow from the upper parts through the Kidneys (being sound) into the Urinary Passages. Seeing therefore his Kidneys are not known to be as yet diseased, it must of necessity be, that this impure matter comes either out of the Bladder, or out of the Yard and Spermatick Vessels; and that consequently either there is a stone in the Bladder, or an Ulcer in the Yard and the Neck of the Bladder. And because these Infirmities have some signs common to one as well as another, we must

must seek for proper signs to distinguish them by : nor must any peculiar Cure be undertaken till it be certainly known which of these Diseases it is. And therefore we must observe, whether the Patient feel any sence of weight in his Perinæum, or space betwixt his Cods and Fundament, which troubles him in his going ? Whether he be not sometimes pained in his Fundament, with a desire to make water and go to stool ? Whether his Urine come away in a full stream ? Whether it be not stopped in the middle of its course ? For these are sure signs of a stone, especially if the Patient have been at any time troubled with a pain in his Kidneys. But if none of these signs have appeared, you must ask him, Whether or no there comes not filthy stuff sometimes from his Yard without sence, and when he makes not water ? If before or after the swelling of his Testicle, the sick man have been at any time infected with the virulent Gonorrhæa ? Whether his water come away in full stream, or like a small threed as it were ? If in the erection of the Yard, or when it is handled, either any pain or Tumor is perceived ; for then is a filthy and Fistulous Ulcer in the Neck of the Bladder, or in the passage of the Yard it self. And that the conjecture which is taken from these signs may be searched out and confirmed by the Judgment of sence, a Catheter must be gently thrust in, that so the immediate and continent cause may be more certainly known ;

The place affected being at length known, and the proper original of his Malady, peculiar Remedies must be accommodated thereunto, and such, as 'tis hoped, will do him good. And if any demur shall happen, his pain in making water must be asswaged with an emollient fomentation, or such as shall assuage pain, applied to his privy parts, and sometimes with a fomentation of luke-warm Milk. Also with an Oyntment which is of the same faculty, the part must be lenified, and by an injection of the Musilage of seeds of Fleawort and of Quinces drawn in Plantane-water. Also the Acrimony of his Urine must be mitigated with Syrup of Violets, of Marsh-mallows, of Lemons, or other coolers, and with Wine very much allayed, if the strength of his Stomach will bear it.

The LX. Counsel.

*For an Ulcer of the Sphincter of the Bladder,
Out of the French.*

THat we may apply Remedies to an inveterate Ulcer, and which has contracted a Callus, which by certain signs and by the Catheter is found to be in the Bladder of the Patient, without any fleshy Knob : in the first place the part underwritten must be three or four times a day fomented with mollifying and pain-asswaging Fomentations.

Take Roots of Marsh-mallows and Lillies sliced, of each two ounces ; Mallows, Violets, Pellitory, Water-Cresses, Origanum, Calamint, Wormwood, Flowers of Chamomel and Melilot, of each one handful ; Line-seed and Fenugreek-seed, of each one ounce : Put them in a bag, and boyl it in Water and White-Wine. Foment therewith his Yard and Perinæum three or four times a day. After this fomentation has been continued five or six daies, omit the same two daies, and then purge his Body with Cassia and Rhubarb after this manner.

Take Cassia Fistula new pulped six drams, Rhubarb very fine powdered four scruples, with Species of Eleſuary of Diatragacanthum ; make all into a Bolus. The day after his purgation let him take Venice Turpentine thus prepared.

Take clear Venice-Turpentine washt in Rose and Pellitory-water two drams ; Then he must return to his former Fomentations for three or four daies, or till the foresaid Ulcer be softened and asswaged.

Then with a small Syringe this Decoction under-written must be squirted into the part affected three or four times a day.

Take Red Rose-leaves, Plantane, Barley, Wormwood, of each one handful ; Centaury the less half an handful ; Make a Decoction to a pint. Dissolve therein Aloes two drams, Myrrh one dram, Aristolochia half a dram. Make of all an Injection.

The Ulcer being by this means well scoured and cleansed, that it may be more and more dried, make an Injection of an Aluminous water made after this manner.

Take

Take Raw Allum four ounces, juyce of Plantane and Purslane, of each eight ounces; stir them all together, and dissolve them with the whites of three raw Eggs; and then put them in a Gass-Alem-bick, and still them.

And that the Ulcer may afterwards be covered with a scar, and clothed with skin, this last injection must be used.

Take Plantane-water one pound, Dissolve therein the white Trochisks of Rhasis, with Camphire half an ounce. Make thereof an Injection.

Or inttead of Trochisks, make it after this manner.

Take Litharge of Gold, Ceruss, Bole-Armonick, of each two ounces; with Plantane-water make an injection.

In his Diet he must abstain from Salt and Spiced Meats, strong Wines, and other things which make the blood thin. In their stead let him use cooling Broths, Prunes, and other Meats which engender moderate blood. Sometimes betwixt meals, and during the time of his Cure, it will be good to drink one draught of Hydromel well boyled, or of Barley Water.

The LXI. Counsel.

For making of Flegmatick Urine.

A Certain man did render thick Urines and troubled, wherein there setled Flegm thick and clammy. He was troubled with extream pain and heat while he made water. His Master thought, it was because he had a stone in his Bladder, but the Chirurgeons using their Instrument, did not perceive any stone. It did therefore follow, that it proceeded from the weakness of his Bladder. For the Cure whereof, these following Remedies were prescribed.

Take Polypody of the Oak an ounce, Roots of Ruscus or Butchers-Broom, Asparagus, Grasse and Fennel, of each half an ounce: Agrimony, Ceterach, Dodder, Pimpernel, Betony, Clary, Saxifrage, Wallrue, Maiden-hair, of each one handful; Seeds of Annis, Melons, Burdock, Parsly of Macedonia, Liquoris shav'd, of each two drams. Make a Decoction to twenty ounces. In the strained Liquor, infuse four ounces of pickt Senna, white Agarick two ounces, Gummy Turbith half an ounce, Ginger two drams. Boyl them a little together, and strain and squeeze out the Liquor, and therein dissolve white Sugar one pound; Make a Syrup perfectly boyled. Let him take every tenth or fifteenth day an ounce and an half, or two ounces for a dose, with a little potion of Pellitory-water. Also,

Take the best Aloes half an ounce, choice Rhubarb two drams and an half, Agarick trochisk'd four scruples, powder of the Dukes Electuary two scruples; Make of all a soft mass with Syrup of Marsh-mallows. Let him take one dram at a time in five pills, without observance of keeping Chamber, &c.

On other daies, when his Belly is bound, or Flegm troubles him.

Take the four greater Cold seeds, Seeds of Basil, Saxifrage, Parsly of Macedonia, of each one dram; Choice Cinnamon, Nutmeg, of each half a dram; Diarrhodon Abbatis one dram; white Sugar dissolved in Pellitory and Clary-water six ounces; make of all Lozenges or Tables weighing three drams apiece. Let him take one in the morning, at least three hours before meat, on the daies in which he takes neither Syrup nor Pills. Item,

Take Roots of Marsh-mallows, Elicampne, Juniper-berries, of each one ounce; Centaury, Origanum, Wormwood, Chamamel, Melilot, Dill, of each one handful; Seeds of Annis, Fennel and Fennugreek, of each half an ounce; Make of all a bag. Let it boyl in a sufficient quantity of Water, putting thereto in conclusion a quarter as much White Wine. Foment therewith being hot, his Share, Privities and Perineum.

If this be not enough, let the Flegm be made thin and melted. Of the same Ingredients a Bath may be made to sit in, wherein being hot, let him sit up to the Navil.

The LXII. Counsel.

*For involuntary letting go of the Urine, Hypochondriacal Melancholy,
and Inflammation of the Leg.*

THe Disease which has been largely and clearly unfolded, although by a various mixture, and usual concurrence of Symptoms, it seems to be very obscure and new; yet if we shall more deeply search into the force and nature of the signs, both will become apparent, and the cause of the Disease will be found by comparison of other Diseases. The Cause of these Symptoms is not one simple Disease, but comparing and weighing their Natures, we shall find three Diseases interwisted. The one is an Inflammation of the Legs returning by fits. For Redness and Heats are signs of an Inflammation, which they term *Phlogosis*. Yet it cannot be counted an Erysipelas, seeing it does not possess the Skin alone, but the Flesh under the same, and the whole part swells into a great bulk. It remains therefore, that it is a Phlegmonous inflammation of the Legs: The immediate and continent cause whereof is thin and fervent blood, which offends the part not only by its redness and heat, but also by its immoderate quantity. Which being not confined to one place, it does not cause that sort of Phlegmon, which at last ends in an Imposthume; but being equally diffused all the Legs over, it causes a Phlegmonous Tumor, which continues so long, that fervor of the blood being repressed, it is all either manifestly or insensibly dissipated and exhaled. Now this blood flows down from the whole Body, but especially from the Bowels, and out of all the Vessels, wherein at certain periods of time it is wont to be collected and to superabound, and that by means of the natural constitution of the Patient. For seeing both his temperament and habit of Body, his Diet and course of Life argue him to be sanguine and apt to breed much blood, it happens at certain set times, that his whole body is furcharged with blood. Which becoming troublesome and burthensome to Nature; it is either by Nature driven, or falls of his own accord out of the Veins into the Legs, being by some means or other become weak. Even as in those that are of like Constitution, it breaks out in some at the Nose, and in others by the Hemorrhoid-Veins, and in others by other wayes. And the very truth is, unless in this Gentleman the Patient, this superfluity of blood did fall into his Legs, he would be in danger either of sudden choking, or of the breaking of a Vein: seeing we sometimes hear of great quantities of blood vomited up, not without the opening or breaking of a Vein, which comes either from the Liver or other neighbouring parts and places in the Stomach. Now that this flux of blood into the Legs comes from the whole Body, and all the Veins thereof, it plainly appears by such things as we are informed do happen at the beginning of the fit; viz. heaviness of his whole body, a distending weariness, shortness of breath, head-ach, working and burning of the inward parts, Anxiety of Mind; all which are Symptoms of superabundance of hot blood.

The other Disease which troubles the sick Gentleman, is Melancholy, the Companion of Inflammation, and that kind of Melancholy, as I conceive, which we call Hypochondriacal. For the pain which is wont to settle on his left side, under the short Ribs, and the Palpitation of those parts reaching as high as his left pap, Anxiety of Mind, Sadness, Solitude, variety of troublesome Dreams, dulness of Understanding in administration of Affairs, and in discoursing, with weakness of Memory; are signs which cannot be referred to any thing but black Choler, whose vapours gliding into the Heart and Brain, are wont to cause such Symptoms as these and far worse. Seeing a very great heat of his inner bowels and humor has continued so many years; it can hardly be, but that a very great quantity of yellow Choler is burnt and turned into black Choler, which being sent into the Spleen, its proper receptacle, it shews the force of its Malignity.

His third Disease is the involuntary going away of his Water, which happens commonly in his sleep, so that he never perceives it. Nor is this any effect of the Inflammation or Infirmities aforesaid, nor need he to fear hereafter such a painful making of water as has formerly tormented him: But the causing of this passing away of his Water is the hurting of the Sphincter Muscle;

Muscle, which closes the Neck of the Bladder : for by putting in of the Catheter, it is stretched and torn, by which occasion also much blood came away. And being thus hurt, it cannot perform its office of shutting the Bladder. And so much for the knowledge of his Diseases, and their causes. The premisses therefore considered, a perfect Cure may be hoped for of all these Diseases, provided the Patient in his flourishing age wherein he is, and in the height of his strength be so diligent as is requisite.

The Method of the Cure.

The last Disease of involuntary making of water because it is very sngle, and he voids no filthy matter with his Urine, it may be cured only by astringents and strengthening things. Such are the fomentation of his Privities with Roses, Balauftins, Plantane, Pomgranate-peels, and such like things boyled in Smiths-forge water. And also Plaisters of the said materials, and of metalick simples, as Lithrage and Allum, Bole-Armenick and Mastich made up with Myrtle, Oyl and Vinegar. And if these things externally applied do not help, they must be injected with a Syringe, that they may touch the part affected. For so their use will be found much more effectual.

The other two infirmities because they are in some sort complicated, and the one is the effect of the other, there is in a manner one and the same Cure for both. That same Inflammation of his Legs coming by fits may possibly be hindred and cured, only by observing a good Diet, and course of living. But the Melancholy infirmity requires some Cure. Therefore, to purifie his blood and whole Body, every fifth or sixth day purge him with a Syrup made of juyce of Bugloss, Borrage, Fumitory, Hops, Sorrel, and such like, adding to every pound of the juyces four ounces of Senna, and half an ounce of Cinnamon, and a pound of Sugar. The dose whereof must be two ounces tempered with Whey. If he shall be much troubled with melancholy Symptoms, give him on the daies between his purging the like Syrup made without the Senna. Also I prescribed him an Electuary of the *Species Latificans Galeni*, *Diambra & de Gemmis* made into Lozenges, with Sugar dissolved in Bugloss-water. Use no stronger purge, nor open hereafter any Vein, unless some greater necessity shall happen. But the Hemorrhoid Veins may easily and very profitably be opened, if they happen to swell, or are fuller than ordinary, and apparent in any measure ; and that either with a Lancet or Leeches, or Medicaments. Add hereunto such a Diet as may breed good, thin, moderately cold and moist juyce, namely such as all men commend in the case of Hypochondriacal Melancholy. Now the cure of the Inflammation of his Legs returning by fits, does chiefly herein consist, viz. That he live sparingly, and with a thin Diet pine himself with hunger and thirst, and keep his blood and humors in a moderate quantity, so as not to burthen and trouble Nature. Let him therefore use means of good juyce cold and moist, and of indifferent Nature, and let him eat less by half than he has been accustomed to do. Let him (if the strength of his Stomach will give leave) abstain from Wine two or three moneths. And instead thereof, let him drink either small Beer, or Water seasoned with Cinnamon, or a Decoction of Guajacum. If also he procure himself to sweat, and make his body more open, I conceive it will do him very much good. In the whole course of his life, let him shun strong Wine, surfeiting and full feeding : For all the hope of his Cure does consist in a cooling and spare Diet. I do not approve of their Judgment that would have him drink Asses-milk, because milk in an hot and cholerick constitution is soon corrupted, nor does the Patient fall away in his flesh. Much less do I like of the use of Baths ; because they by melting and dissolving the Humors cause fluxions : now his body is afflicted with divers defluxions already. Now that the Humors may not hereafter so readily fall into his Legs, it will be good to swath them very close with Swath-bands, or with Stockins which are with us made of Dogs-leather for the same purpose.

The LXIII. Counsel.

For the Gonorrhæa, and the Gout.

THis Gentleman is troubled with two Diseases, the Joynt pain and the Gonorrhæa. The latter is newly befallen him, being only of three moneths durance, without sharpness of Urine, without any Ulcer or difficulty in pissing. The former is more old, which did this year grievously trouble him, and six years since gave a testimony of its Intentions to visit him. 'Tis a wonder truly, that this pain at the very first coming should seize all his Joynts alike, and leave behind it stony knobs in his fingers, hand, wrist, and other places. This is a sign of a most grievous Gout to come, which will in a few years catch the whole man and bind him with fetters and manacles, unless it be in good time prevented. Which he foreseeing and fearing, does implore help, which because I cannot afford him, in this my wandering and unsettled condition of following the Court, I thought fit to commit him to your care, that you may in his Cure follow that way and method which you have sometimes seen me use. And that you may in like manner accommodate your Cure to the virulent Gonorrhæa; in the first place you shall give him a Clyster, which shall have in it Hiera simple, and Diaphenicon, each half an ounce; honey of Roses and Rosemary, each one ounce, &c. The day after purge him with a medicament of Rhubarb and Agarick, each four scruples, infused in waters of Betony, Endive and White-wine, each one ounce. In the strained liquor dissolve Electuary of Diacarthamus one dram and half, syrup of Maiden-hair half an ounce. The third day give him two drams and an half of Turpentine, with syrup of Maiden-hair out of a spoon, four hours before meat. The fourth day let him rest. On the fifth day he must begin the diet with Guajacum; and he must have a double decoction, the one strong of half a pound of the wood and two ounces of the bark, adding about the end of the decoction, Elicampagne, Polipody of the Oak, and Carthamus seeds, each one ounce. And let him use it twice a day, three or four hours before meat. The other must be weaker, made onely of the wood, which he must use at meals instead of wine. His diet must be in the mean time spare, attenuating and drying. If his belly be collicive, provoke it with a Clyster. On the seventh or eighth day, let him be purged again with such a like Medicament. After his purgation first of all apply Topick Medicines to his head, as little bags of seeds which may more effectually provoke the sweat. And when the sweat is wiped off, let him use every day Errhines, first weaker, then stronger. When the Humors of his head shall seem for the most part dissipated, you shall apply such Medicaments to his neck and back-bone, which I know you have copies of, written down. And for the stony-knobs on his Joynts, certain plaisters which you may remember I prescribed at large for M^r. de Chauvigne. When by the continuance of these Remedies, you have quite cured all the joynt pains and the Knobs, and plucked up the disease by the roots, in the last place his joynts must be strengthened with Medicines provided to that end: of which likewise you have good store. But before the cure come to that forwardness, I hope I shall see you again: If by these Remedies the Gonorrhæa shall not be quite rooted up, such things must be conveyed into his yard as will dry up the reliques thereof. The materials whereof, if need shall be, I will hereafter set down more at large. Mean while, during the Cure, the immoderate heat and working of his Kidneys, may be repressed by, anointing the same with oyl of Lillies and Roses washed in Plantane water, or with Oxymel, Rose water, Plantane and Nightshade waters, each two ounces; Vinegar one ounce. Wherein also if necessity require, dissolve two drams of Trochisks of Camphire.

The LXIV. Counsel.

For a Rupture of the Guts. Out of the French.

TO cure the Disease propounded; first the Patient must keep his bed at least twenty dayes together, and lie upon his back, and stretch or stir his Body very little, especially his legs

nor vex his mind with wrath, or other passions, nor laugh or cough. In the mean while he must live soberly and temperately, with meats neither windy nor moist; and endeavour that his belly be neither swoln nor dried, and to have every day a stool by Nature or by Art with a Clyster or Suppository. First, let his body be purged with the medicament here under-written: which also may be repeated after fifteen or sixteen dayes are over.

Take of the four emollient Herbs, Origanum, Calamint, Wormwood, Chamomel, Melilot, Dill, each one handful. Seeds of Annis, Fennel, each half an ounce. Honey of Roses, and Rosemary, each one ounce. Oyl of Rue and Dill, each one ounce and half. Make of all a Clyster. Item,

Take great and middle Comfry, Roots of Osmund royal, each half an handful. Leaves of Senna cleansed three drams. Make a Decoction for one dose; in the strained liquor dissolve choice Rhubarb powdered one dram and half, Syrup of dried Roses six drams. Make all into a potion.

On the first four dayes of the Cure, let the Tumor be fomented, as hot as he can endure, with a sponge indifferently moistened with this following Decoction; and five or six times as hot as he can suffer, he must cover the pained part lying on his back and bind it with a bolster and cloath between, with swath-bands, viz. in the morning, and at one a clock in the afternoon. Let the Fomentation be this that follows.

Take Roots of Marsh-mallows, Dwarf-elder, and fresh Orris, each two ounces. Mallows, Violets, Pellitory, Water-cresses, Wormwood, Origanum, Calamint, Centaury, each one handful. Seeds of Fennel, Line, and Fennugreek, each one ounce. Make of all a decoction in water sufficient to make a Fomentation.

After four dayes you shall again foment his Rupture with the Bath which I have given you wet with red Wine, and heated over the fire. And after eight dayes more dip the second bag in a Lie made of Smiths-forgewater and Oak ashes. After which bags applied twice a day, the bolsters and swathes must be again used. Which things being performed, he may for two moneths abstain from other Remedies, excepting a truss fitted to his Rupture. Also let him forbear all straining himself either on horse-back or on foot. On the fourteenth day of the Cure he shall take a quantity of this following powder out of a spoon, in the morning, and evening an hour before supper, and continue the use till he be perfectly cured.

Take of the Myrabolans Indian, and Chebulan, each one dram and half. Water-Cresses, Purslane, Plantane, Sumach, each half a dram. Red Coral, Bloodstone, Amber, each one scruple. Choice Cinamon four scruples. Sugar of Roses four ounces, Make all into a powder.

The LXV. Counsel.

For Pains of the Hip, and other Joynts.

THis young Maid is troubled with many and grievous infirmities, of all which there is one original and one fountain springing from her Head. An old oedematous swelling, which she was troubled with in her younger years, and frequent and unreasonable washing of her Head, have left a cold distemper and weakness thereof, which perpetually gathers plenty of cold excrements. By these means a cold flegmatick humor was collected and abounded of old, and fell into the kernels of her Neck like the Kings-Evil, and not many years since rushing into the right side of her body, it besieged the joynts of her neck, shoulder, hip, thigh and leg. Nor does it trouble only the external parts of her body, but it has lately set upon the inner parts so great a defluxion falling upon her Lungs, as caused not only a Cough, but wheezing and a troublesome shortness of breath, whence it is apparent, that the cause of all her troubles is a cold and flegmatick humor, which occupies well near all the parts of her body; and that the first original thereof is from her head. Unless her strength be much decayed, some hope there is of Cure, especially now in the flower of her age, and the approach of the Spring. Many things have been by Rules of Art prescribed for her, where-with she has been eased, but by reason of the length and stubbornness of the disease she can

can as yet receive no perfect Cure: and that makes me suspect the fountain of her disease is not yet drawn dry. But that there is a frequent fluxion of Rheum, both into her Lungs and Joynts from her head, which nourishes this long infirmity.

The chief scope of the Cure must be, to cleanse the Head of Excrements, or that such as cannot be hindered from breeding, may be derived through the nostrils, or digested by the power of Topicks. Wherefore every tenth or twelfth day according to her strength, purge her with a potion or pills, which may be able strongly to draw from the distant parts of the body. Her hair being cut off, every morning and an hour before supper, fry in a frying-pan seeds of Annise, Fennel, Caraway, Cummin, Bay-berries, Millet, and Salt, and put them in a little bag, and lay it on her head as hot as she can endure it, until the heat pierce inward, or the sweat run down her face. When it is taken off, cover her head with Tow heated and smoaked, with a perfume by you prescribed. After this, Apophlegmatisms will be useful and Errhines, at first such as are mild, and without He'ebore. And that her body may not be too much shaken by the violence of sneezing, 'twill be sufficient to add to three ounces of juyce of Betony or sweet Marjerom, two drams of Orris, and a dram of root of Bindweed. Let all her neck be compassed with a plaister three fingers broad, which is made of two ounces of Mastich, and one ounce and half of the plaister against Ruptures. Let her by any means forbear lying on her back, but lying on her belly is good for her, because it inclines the rheume to her nostrils. Let her dyet be drying and extenuating, avoiding all suppings, fish, and immoderate drinking; let her eat roasted flesh, drink very sparingly, and endure thirst. The use of all these remedies must be so long continued till the head of the patient be freed from heaviness and pain, and may be on all sides handled, without trouble to her. And when about 20 daies are over, that both the reliques of the distillation and the humors, which have fallen both into her Joynts and Lungs, may be attenuated and dissipated, it is good to order her a Diet-drink of Guajacum, which does much less weaken the body, and is safer than an hot-house. Now let the Decoction be strong, and boyl towards the end therein, Polipody, seeds of Carthamus, Sage and Hyssop; and 'twill be very good for her, if by vertue of the said decoction she may be made to sweat in the morning and before supper. While this is in doing, she must nevertheless persist in the use of those Remedies now described. She must be nourished with a pretty full diet, lest her strength by time and labour come to fail her. If the pains of her joynts shall not be asswaged by the foresaid means; find out in her Hip, the part where her greatest pain is, and fasten there an indifferent great Cupping-Glass without scarrification, being repeated three or four times at convenient distances, till the pain go away. For it plucks out the pain more strongly than any Plaister. And for her Knee make vaporaries of Wine or Vinegar, putting therein a piece of a millstone red hot; or with Baths of the Lie of Vine branches, wherein are boyled roots of Acorus, and Ellicampagne, Polypody, Bayes, Thyme, Stachados, Sage, Betony, Marjerom. The stoppage of her Lungs will be opened by Oxymel Scylliticum, Oxymel simple, syrup of Hyssop, or any other compounded Cough medicines, instead of a Lick-pot.

The LXVI. Counsel.

For a Schirrous Tumor.

YOur Judgment truly agrees very well with the relation you make of the Case. For if at first there was vehement pain, without redness, without any pulsation or heat; and now the pain being gone, the tumor is increased, it must needs be, either that an cedematous tumor is turned into an absolute Schirrhus, or if the tumor be not very hard and resisting, that the flesh has grown above measure, the membrane of the Muscles being broken, and so there is become a Sarcoma or fleshy tumor so called, void of pain. Howbeit the former Opinion is more probable.

Seeing the Patient has received no good by these excellent Remedies which have been applied, I conceive her body must be extenuated, and those virious humors dissipated by a decoction of Lignum Vitæ: which she must be constrained to use with a thin and dry diet, for at least 20 daies. Every eighth day she must be purged with a Medicament made of Senna, Agarick, and

Diaphenicon, that it may draw out the gross humors already prepared: nor must the sweat that day. On other dayes when her sweat is wiped off, you must apply the Plaister of *Phylagrus*, or *Emplastrum filij Zachariae*: for they are both very fitting to mollifie and discuss hard Tumors. These things being continued, and not helping, apply this most effectual Cataplasme or pultis.

Take Roots of Briony, wild Cucumer, Orris, St. Maries seale, raw, each two ounces. Roots of Marsh-mallows, of Lillies roasted under the coals, each three ounces. Seeds of Mustard, Nettles, Water-creeses, each one ounce. Beat them all together, adding fresh Goose-grease eight ounces. Oyl of sweet Almonds as much as shall suffice. Make all into a Cataplasme.

The LXVII. Counsel

For the English Plague, or Sweating-Sickness; the Counsel of Fernelius, Hollerius, and Sylvius, for the English Ambassador.

THe English Plague, which has been known but of late years, is of all other the most acute. It has got its name of the Sweating sickness from its most remarkable symptom; and whether it proceed from corruption of the spirits or humors, or both, it is doubtless an Epidemical disease: and the constitution of the Air being corrupted, either by winds, or exhalations out of the Earth, or some other venomous infectious cause, it exercises its cruelty most of all (as other pestilences do) and most dangerously, upon bodies that are moist and excrementitious. If therefore you would either hinder the reception of that venomous quality of the Aire, (which were most to be wished) or drive it away when received; you must diligently resist both the external cause, viz. The contraction and commision of corrupted Air, and the preparation of the body whereby it is apt to receive the same. You shall hinder corrupted and pestilent Air, and such as is vitiated in its whole substance from being received into your body, if you keep your self far distant from all such places where the Air is infected. Or if business do require your Lordships presence in such places; the Air must be stirred and agitated with fans, and driven from you, or corrected with such things as hinder putrifaction: and the Air which is not as yet putrified, must be by the said things preserved; such are, fire in your chamber, and the whole house besides, yea, and round about the same, of dry woods, and odoriferous plants, as Sage, Rosemary, Juniper, Bays, Marjerom, Leaves of dried Thyme, Flowers, Seeds, Berries, Cloves, Nigella Romana, the seed and root of Pæony, especially the male, Schenanth, Lignum Aloes, Storax, and juyce of Angelica, and Trochisks made of these things, to perfume, adding thereto also Amber-greece, if you please, and Musk, and other Alexipharmaca. And be careful that this air so studiously prepared be not defiled by mens breaths, lest there happen to be some among them that are infected with this disease.

Moreover, you shall defend your body, being of constitution somewhat hot and moist, from the infection, and render the same unconquerable, if you keep it free from putrid excrements, or such as are ready to receive putrifaction, and make it wholly perspicable, the pores thereof being kept open. Both which may be effected by a few evacuations, and a fitting course of diet. Now the Evacuations shall be such as these. Alwayes the first day, before you go out of Paris, take Pulp of Cassia new drawn six drams, choyce Rhubarb not very fine poudered one dram and half. Cinnamon six grains. Take it in the morning, three hours before meat with Sugar or Bugloss water. The day after about six a clock in the morning take away about six ounces of blood from your Basilica vein, or if you dislike blood-letting, diminish your blood by a spare diet. And seeing our bodies are apt even of Meats not offending in quantity nor quality, to breed sometimes superfluity of excrements, 'twill be healthful for you, once or twice in a week to swallow an hour or two before meat, two or three of these Pills.

Take Choyce Aloes half an ounce; the best Myrrb two drams; Saffron ten grains, Dittamus leaves, the roots of false Dittamus, wild Betony, Tormetil, Bole-Armenick, Terra Lemnia, each half a dram; with fresh oyl of sweet Almonds drawn without fire, and with Syrup of Lemons, make all into a soft mass, rowl it in Leather.

And

And although these Purges do also add strength to our principal parts, wherein are our chief faculties, whose action is our life; yet must they be armed as it were with their proper Antidotes, that they may give no place to this malignant contagion of the air. And such are these two most excellent ones, invented and approved by reason and experience.

Take Conserve of Bugloss, Borrage, Cichory, Maiden-hair, each two ounces. Conserve of Roses, Citron peels preserved, each one ounce and half; Leaves of true Dittamus, Roots of false Dittamus, of wild Betony, and Tormentil, each two drams. Seeds of Carduus, of Citrons, of Sotth, each three drams. Zedoary, Gentian, each half an ounce, old Mithridate, Treacle, each three ounces. Powder of Diamargaritum frigidum, de Gemmis, Diarrhodon Abbatis, and Trionfantalon, each half an ounce; Liqueur of the Decoction of two Capons, altered with Sorrel, Purslane, Scabious, Bugloss, Borrage, Marygolds, ten pints, with thirty leaves of the finest Gold. Distil it artificially in a glass Alembick over the embers, and keep it in a Glass. Take thereof every morning two hours before dinner, with Sugar and Cinnamon. And if you be taken with the sickness, you must have twice or thrice in the fit two or three ounces at a time, warmed a little. In the morning your body being disburthened, exercise all the parts thereof with gentle motions, after which if gentle sweat follow, wipe it off with soft cloaths.

And when the heat of your body is over, eat meat easie of digestion, but a little more sparingly than ordinary. Such meats are Thrushes, Quails, Partridges, small Birds, fed Capons, Hens, Pheasants, Leverets, Rabbits, Kids, roasted rather than boyled, with juyce of four Grapes, or juyce of Sorrel, Lemons, Oranges, with plain Vinegar, or Vinegar of Roses. Or if you desire to eat of these, or such like meats boyled, let them be qualified with Purslane, Borrage and Bugloss, and let them be eaten with the foresaid spices, but so sparingly, that you must rise from table with your belly but half full. If you desire to eat fish, let them be such as after boyling have their substance short, dry, and crumbling, with plenty whereof your Country of England is richly furnished. Let your wine be in the Summer of indifferent strength, in colour either white or fiery; in the Winter stronger and redder, provided it be not too vaporious or hot, or need much tempering with water, which we allow not, because it moistens too much, nor yet your Country Beer, which engenders a thick and melancholick juyce, be it made how it can. Nor do we approve of your Ale which is like your Beer, nor of Milk, which is too apt to be corrupted; nor of Whey of milk turned and mingled with white Wine Cheese, though it be good in as much as drying, yet because old Cheese is hot, and new is cold and crude, and apt to obstruct, it must be forborn, especially the frequent and large feeding thereon. All Summer fruits dispose the body to putrifaction, Dates and Raisins we permit, nay, we enjoyn the eating of them, also dried Figs, because they scower the bowels, open Obstructions, and resist poyson, sweet Almonds, Capers, &c. preserved Citron peels, Conserve of Roses, of Borrage, of Bugloss, of Milt-wast, of Scabious, of Cichory, Tormentil roots, wild Betony, and the like, we highly esteem, and would have them frequently used, at all hours in a manner, either before or after meats; unless they bind the belly too much. You may sometimes take two hours before break-fast, the quantity of an hazel-nut of this mixture.

Take Conserve of Roses, Borrage, Bugloss, Citron peels preserved, each one ounce. Treacle of Venice, or old Mithridate three drams. Bole Armenick, Terra Lemnia, Sigillata, each two drams. Make all into an Opiate, after a small quantity whereof, let him drink two ounces of distilled Wine.

You may also take a quantity of the Philosophical Egg, which most Physicians have described. If the Plague shall seize upon you unawares, it will wonderfully strengthen your Nature, in the sweat it self to drink some of your distilled water, and to take of your Electuary twice or thrice, and to suck a piece of bread steeped in Wine allayed with Bugloss water: and this recreates our principal parts themselves, which are the causes of our faculties, and the faculties themselves which govern our bodies, and sooner dry the pestilent consumptive venome out of our said bodies. And therefore it makes the fit safe and short, and frees the body from those cruel symptomes which are wont to attend this disease.

The LXVIII. Counsel.

Of the Elephantiasis, or Disease so called.

Seeing the Learned Physicians do not agree as concerning the symptoms appearing in the face of *John Rocquiere*, some saying that he looks horribly, has Lyon's eyes, eye-browes without hair, a thin beard, swollen nostrils, and deformed with many pustules within and without, with an Ulcer beginning; and that his breath is short, his almonds of his Ears ulcerated, with an hoarse and obscure voice. And others say, that some of these tokens are not to be seen, and that the pustules, if any be, are red. It must of necessity be, that the signs about which the renowned Physicians are at variance, are very obscure and deserving little credit; nor must we from them conclude any man to have the *Morbus Elephantiasis*, or Disease so called; nor if all the tokens mentioned did appear, must we therefore judge that it is therefore the beginning of the Elephants-Mange or *Elephantiasis*; especially seeing his body is well nourished, and there is no numbness, swelling, or coldness of his feet or hands, which is wont presently at the very beginning to accompany the *Elephantiasis*. Nor in case there were the beginning of that disease, ought the Patient to be therefore shut up from the society of Men, seeing neither his body as yet, nor breath do stink, nor is there any such contagion as may infect his Neighbours. Thus therefore we under-written Doctors of Physick do judge of this matter in controversy, viz. That *John Rocquiere* having a suffusion of thick and melancholick blood through his skin, and deformed with dark red pustules, is not yet to be reckoned amongst such as have the *Elephantiasis* or Elephants-manginess, nor is to be shut up from the society of Men.

But if hereafter no course of Diet or Physick can overcome the Disease, so that it grow worse, and afford more evident signs and tokens, it will be then time enough justly to determine what is fit to be done in this case. The Cure must be undertaken in the Spring. Let his Diet be cooling and moistening. Let him every week be purged with an Apozem. Let him drink no Wine. Let him avoid all hot and venomous medicaments, both purging and Antidotary, such as Scammoniated Medicaments, Methridate, Venice Treacle, &c. which are so far from helping the disease, that they burn the humors, and double the same.

The LXIX. Counsel.

*Of the Elephantiasis beginning.**The Disease propounded.*

A Gentleman of Fifty years of Age, of a fleshy, but ill-favoured habit of Body, something like that of those which have the Jaundies, his Face of a blewish red, full of thick and black blood, wherein sometimes arose black or livid spots, as also in the rest of his body, having little or no sense in them. Howbeit this Gentleman is not troubled with thirst, loathing of meat, or any other more grievous symptoms. He has taken a thousand potions, and has exhausted his Body by sweating in hot Baths, to the prejudice of his Health. For he fears he shall have the *Elephantiasis* or Elephants-manginess, whereof this seems the beginning.

M^r. Ferrius,

M^r. Fernelius wrote back these Remedies.

Take Roots of Sorrel, sharppointed Dock and Elicampane, Polypody of the Oak, Seeds of Carthamus, Raisins stoned of each half an ounce. Endive, Cichory, Plantane, Bugloss, Borrage, Hops, Fumitory, Dodder, Ceterach, Chamadrys or Ground Oak, Ground pine, of each one handful; Violet flowers two pugils. Make a Decoction to sixteen ounces. In the strained liquor steep all night Epithymum, half an ounce. Senna five drams; Agarick two ounces; Ginger two drams. In the morning let them boyl a little and make an expression of the Liquor, and therein dissolve, of the clarified juyces of Fumitory and Plantane, of each three drams. White Sugar one pound and an half. Make of all a Syrup perfectly boyled. Let him take two ounces or two and a half, at a time, in Whey, every fifth or sixth day.

Take Conserve of Bugloss and Borrage flowers, of each two drams; shavings of Ivory and Harts-Horn, of each a scruple. Old Mithridate two drams. Mix them for two doses after his purging, three hours before meat.

After the third or fourth purging, open the inner vein of his left Arm, and take away ten ounces of blood. Afterwards, if possible by any means open his Hemorrhoid veins: first with emollient and altering fomentations, afterwards with Suppositories of Hiera simple with juyce of Mercury or with Gall: or if they be conspicuous outwardly and swollen, apply Leeches to them. That by this means the black and melancholick blood may flow out.

When therefore his body shall be diligently prepared and evacuated, the use of bathing will be exceeding profitable in sweet potable water, continued many daies together, in the morning fasting. But so that the Baths be not hot to cause sweat, but only luke-warm, to moisten his Body.

He must keep a cooling and moistening Diet; Barley cream will be very good for him in a morning, especially when there is no need of Medicaments. Broths also made of Chicken, Veal, or Mutton, with Bugloss, Borrage, Sorrel, Lettuce and Plantane. If he leave off Wine in the Summer, it will be exceeding wholesome for him to drink instead thereof Barley water, or any other drink prepared for him; If any parts in the Skin appear black, or black and blew, void of sense, fix Cupping-Glasses thereupon, and make Scarification, and that a good depth. That the blood may flow out, and the sense be recalled.

The LXX. Counsel.

A Letter from a certain Person, that with a thin Diet, and a Decoction of Guajacum, did Cure a Disease.

MY Diet was very spare, consisting of Raisins and Dates, and I so abstained from Wine, that I cannot endure the smell of it, my belly is in good case as to going to stool. My morning potion makes me sweat indifferently, mine evening potion makes me not sweat at all. I have no shortness of breath, but my old pain always sticks in my breast. And within this six dayes I have felt a new pain over against the old, betwene my shoulder-blades, which herein differs from the old pain, in that the new one is felt by touching, the old one only upon vehement motion. Since yesterday I have been twice as bad as formerly; My stomach (which has been always naturally weak) doth continually pain me, yet without loathing of my meat, &c.

To the premisses, M^r. Fernelius thus answers.

You do, truly, exceeding well, and take a very good course to vanquish this long lasting and rebellious Disease; howbeit, I fear lest your strength will at last fail you, by reason of your so thin a Diet: you must see to preserve them, and sustain them with a little more liberal

ral allowance, that they may hold out till the end of the Cure. I perceive you have new pains risen; but that is the nature of the potion, that if any Humor did lurk silently in the body, it will at the first bring it to light, and many times exasperates the pains, which do afterwards end. And whereas a new pain vexes your Stomach, it comes from the same cause; for vitious Humors being stirred in the bowels, they break out presently into the stomach; and therefore I thought fit by any means to purge them with an accommodate Medicament, the description whereof I have sent you. The day wherein you take it abstain from your other potion, and afterward use it more liberally, that you may sweat lustily from all parts. And if the sweats will not be otherwise provoked, lay some hot thing to the Soles of your Feet.

The Counsel of *Jobannes Capellanus* Senior, Renowned Physitian to the Queen Mother of the most Christian King, *Francis* the First of that Name, King of *France*.

THE Pestilence is an aiery Venome, or the Air poysoned by admixture of putrid Vapors, and qualified with a disposition most pernicious to mankind. For the Air thus affected, through necessity of respiration, does first enter into the receptacles of the Heart, and by and by the infection is by the Arteries spread into the whole body. So that both the Heart the Fountain of Life, and the spirit the next Organ of the soul, being by this cruel contagion rendred unfit for the functions of Life, a man must needs soon come to his end, if speedy Remedies be not applied. And that we may prevent so sudden a mischief, we shall speak first of the point of Diet; and then I shall prescribe the Medicaments both for prevention and Cure.

Seeing this Infection of the Air proceeds from watry vapors mingled and confounded therewith; such an Air must be chosen, as is far from Lakes and Pools, which for want of motion do putrifie. Let the windows be set open to the East and North. For those are dry quarters, and none of those humidities come from them which moisten and infest the Air. The North-wind is especially good, which is therefore called the Broom of Heaven, because it cools and tempers the boyling Air, and corrects the putrification thereof. You must use the wholesomest water you can get. Let your meat and drink be temperate, not only in quality, but in quantity also, so as they may not collect superfluous Humors, and may be hard to be corrupted. Such are all meats that are not of an immoderate or bad juice; some tart things, as Citrons, Barberies, Raspberries, sour Grapes-liquor, and Vinegar, wherewith your other meats are to be sawced. Let your Wine be allayed with water, wherein red hot Gold has been quenched. For there is a singular Sympathy and consent betwixt Gold and Wine, and betwixt Wine & the vital Spirit. Also avoid sleeping in the day time, which hinders the body from perspiration. Grievous, sad, and troublesome perturbations of the Mind must be abandoned, which destroy the natural state of our Temperament. For the mind moves the bodies bulk, as the Intelligences move the heavenly bodies, not only with local motion, but also with the motion of alteration, by the spirit its Organ. Also vehement exercises do the same, and weaken the forces of the body, and render them weak for action. But moderate exercises do empty the habit of the whole body of Excrements, strengthen all the members, and make the faculties of the Body more chearful in the performance of their Functions.

As for Medicinal Remedies to prevent the Plague, when you awake from sleep, perfume your Chamber with Frankincense, Juniper Berries, Citron Peels dried, or leaves of Gold. For a perfume made with these things, does not onely purge the Air, but also your cloaths, and

and garments, do thereby carry away a quality in them, contrary to the infection. Let your mouth and hands be washed with water and a little vinegar mingled with it. It is good to carry such things about one, as have an antipathy against all deadly venomes, as the Garnet or a kind of Carbuncle so called, which though it be of small price, is counted to be of greatest vertue among precious stones, having an especial friendship to the heart, as the Samaragd to the brain, the Saphire to the Liver, Coral to the Stomach. Also an Hyacinth is carried and worn in a Ring to the same purpose, and held in the mouth. Some also hang quick-silver about their neck, which is contrary to other Poysons, by a hidden and peculiar Antipathy. Shut a bit of Sponge wet in Vinegar in a box with holes, and smell frequently thereunto. Hold a piece of dried Pomgranate rind in your mouth, or a leaf thereof, and of Bayes. Also Zedoary, which *Galen* and *Paulus* do term *Arnabo*. For all these things by an occult propriety and certain invilible raies, do drive away pestilent Air, even a *Palma Christi* drives away the viper *Dracontius*; *Polemonium* drives away the Scorpion; the herb Loose-strife kills Serpents, and drives away flies. If your belly be not loose of its own accord, so that you go not to stool all the day, an hour before Supper swallow one of these Pills following.

Take Aloes, two drams; Rhubarb and Agarick, of each one scruple; Ginger and Cinnamon, of each ten grains; with Juyce of Citrons or Vinegar make all into a mass of Pil stuff.

Aloes preserves bodies both dead and living from corruption: Rhubarb draws away flegm, Choler, and Melancholy, and Agarick does the same. Cinnamon resists Poyson, Ginger strengthens the Bowels, and quickens the sluggish lazyness of the Purgers.

When you are to go out in the morning, take the quantity of a Wall-nut of this following Electuary.

Take Bole-Armenick washt in Scabious Water, one ounce; Conserve of Water Lillies and Bugloss flowers, of each two ounces; Citron Peels preserved, and Conserve of red Roses, of each one ounce; Cinnamon, one dram; Citron seed, Pearls, Red Coral, of each one dram; Amber, two scruples; Camphire one scruple. Mix them with the Juyce of a Citron or a Pomegranate into an Electuary.

Bole-Armenick, is a peculiar Remedy for the Plague, which is also a present help for the Lungs any way oppressed. The Arabians since *Galen's* time have found by long experience that water Lillies are wonderfully good for the Plague. Bugloss is a friend to the spirits so far, that wine in which it is steeped drives away sadness and cheers the drooping soul. The Peels of Citrons strengthen the stomach, and their juyce extinguishes the Feaver and removes putrifaction from the Blood. Pearls clear the Eye-sight, and dissipate sooty vapors. Amber is good for infirmities of the Brain, Heart, and Brest. Camphire does that in the body of man, which Boreas or the North wind does in the visible world: For it purges and cleanses the Air of our Bodies, and extinguishes the Pestilential Fervor and heat of the spirits. To conclude all in a word, those things that are good to use in the Plague-time, must have in them these three faculties, viz. They must help putrifaction, strengthen the spirits, and when they are dissolved and dissipated, collect and restore them; and lastly they must have a Bezoartick or Antidotary faculty, or a certain Antipathy whereby they resist Venome. And therefore as much as may be we must search out Medicaments that have these faculties. Moreover care must be taken to purge out those humors which are apt to receive the Pestilential Infection.

And to that end three or four of these Pills are to be swallowed, which are by *Paulus Egineta* cited from *Ruffus*.

Take Ammoniack Gum, two drams; Myrrh, Aloes, of each one dram. Make them with Honey into a Mass. Ammoniacum and Myrrh do further the bringing up of Flegm, and help the faults of the Chest, which part is most subject to Pestilential injuries; and they do cause the breath to come and go easily.

There is also an Herb called Myrrhis, Mock-cheveril or sweet Cicely, which those that drink in Wine, are thereby preserved from the Plague, in their stead, these Pills following may be used.

Take Aloes, two drams: Rhubarb, Agarick, of each half a dram; Mastick, one scruple; Zedoary,

Zedoary, Ginger, of each ten grains; with Juycce or Syrup of the juycce of Citrons make all into a Mass.

Maſtick ſtrengthens the ſtomach, which has great affinity and Sympathy with the Heart.

As ſoon as ever a Man is taken with the Plague, becauſe of the ſudden danger (ſeeing it kills the patient in a dayes time) you muſt make more ſpeed in application of Remedies. Open therefore a vein in the Arm (provided there be no ſwelling in the groins or neighboring parts) ſo as the parties age, ſtrength, and habit of body will permit, taking more or leſs blood. For by this means in the Veins primarily and in the Arteries by conſent and communication the boyling of the blood is prohibited, or allayed, and the Peſtilent Vapor is by the ſame means averted from the heart. Blood being taken away, let him take of the foreſaid Antidote double the quantity preſcribed for preſervation, adding four grains of Camphire: and becauſe the ſickneſs commonly rages in the Summer time, you muſt in that hot ſeaſon add the more Camphire. And that the reſt of the Humors beſides blood, which are ſetled in the ſtomach, Guts and fiſt paſſages, may be voided forth, give him ſome Pills of the ſecond Compoſition, two hours before ſupper, if the vein was opened in the morning; or next morning if he was let blood in the Evening. And if the Patient will not away with Pills, give him this that follows.

Take Rhubarb four ſcruples: Agarick two ſcruples: a few grains of Ginger: Mix them with half an ounce of Conſerve of Bugloſs, and a little Oxymel.

But if he deſire a potion, diſſolve the ſaid things in a Decoction of Tamarinds, which cools, quenches thirſt, takes away loathing of meat, breaks the acrimony of choler, and reſiſts Putrifaction. Nor muſt the belly be purged with ſharper Medicaments, leſt the peſtiferous venom ſhould be drawn back to the bowels, from whence Nature endeavours to Alienate, drive, and force the ſame away. And when ſhe drives the venomous Humor into the outer parts, or parts near the principal, ſhe muſt be aſſiſted by Art. For ſo, the Phyſick and Nature mutually aſſiſting one the other, muſt needs drive out the Morbiſick cauſe. To which intent Cupping-Glaſſes with deep Scarrification are good, alſo Burning, Diſſection, Cauſticks. If the Patient be burned with a Feaver and tormented with thirſt, he muſt not be kept too much from drink. But let his drink be ſuch, as is very cooling, apt to quench thirſt, and reſiſt Putrifaction, as Oxymel made with ſugar and allayed with much fair Water, or Syrup of the Juycce of Citrons, or Barberries, or of ſour Grapes. And if the infected Humor ſhall have recourſe to the Stomach, ſo as to incline to vomiting, you muſt provoke the Patient to vomit, with Juycce of Reddiſhes and Oxymel; For the Raddiſh reſiſts all Poyſons. This ſubject would require a larger diſcourſe: but my intent is not to ſet down all that may be ſaid, but ſuch things only as are moſt worthy to be known.

Counſel for a Gentlemans Son troubled with divers Infirmities.

A Certain Boy ſix years old, born in *Britain*, is taken with a continual Feaver accompanied with Eruptions into the Skin. They were very many, and his whole Body, yea the inſide of his mouth ſeems to be but one continued Scab. His eyes are very much ſwelled, and do ſtick out as it were; and at laſt his right Eye has quite loſt its ſight, and the ſight of his left Eye is become more dull, as if it were troubled with a ſuffuſion. This dulneſs ſeems to depend upon ſome obſtruction of the Optick Nerve, ſome ſuffuſion which is yet but weak, being joyned thereto. Sometimes his Ear did run with a Sanious and quittoriſh matter, and the paſſage of an Humor from the Ears to the Nerves of the Eyes is eaſie.

The Obſtruction hints the uſe of opening and de-obſtructive medicines.

If there be a ſuffuſion; the Humor which is gathering or gathered in the Cornea Tunica, or Chryſtalline Humor, muſt be diſſolved and diſcuſſed.

For prevention, the Remedies are, Diet, Evacuation, Diverſion, ſtrengthening the parts affected.

After meals let him take a powder of Coriander Comfits, Sugar of Roses, Pearls, and a little Cinnamon.

Take *Seeds of Annis, Fennel, Cinnamon, each one dram. Coriander seeds prepared two ounces. Sugar of Roses half a pound. Eye-bright two drams. Make all into a Powder.*

In the morning when he rises let him take of this following Powder.

Take *Seeds of Fennel, Annis, and Eye-bright, each one dram. Cinnamon two scruples. Nutmeg, Mastic, each half a dram. Sugar three ounces. Make a Powder to be used by its self, or with Fennel water.*

He must use it often, rather than strong medicines, because of his tender age.

Apophlegmatismes are good for him, but not Errhines; and grains of Mastic shut up in Raisins of the Sun.

Small Pills of Rhubarb and Agarick are commended.

When the Spring approaches, make a Syrup thereof, adding Head and Eye simples.

To apply a Cautick to his left Arm will be good, and to the hindermost part of his head.

Manardus advises a third issue in the confines of the foremost sutures, made with an actual Cautery of Gold or Iron.

For the stoppage of the Optick Nerve and Dimness of Sight, nothing is better than a Lie of the ashes of Vine branches, wherein Cephalick herbs and Senna have been steeped.

These things strengthen the Brain and Eyes, viz. Myrobalans Chebulan preserved, eaten in the morning, and the stones held in the mouth, Nutmeg, Comfits of Fennel seed, Eye-bright frequently chewed, Fennel-seed steeped in Vinegar and then dried. Add Cinnamon and Sugar, and a very useful powder may be made of the said simples. The sight of green things, especially the Smaragd stone, Blew colour refreshes the wearied Eye. Contrariwise, the Eyes are hurt by sursetting, New Wine, Beans and Pease, and such like, Coleworts, Raddish, Garlick, Leeks, and other such things, Great Fishes, the sight of bright things swiftly moved. Some youth with a sweat breath having well washt his mouth in water wherein Fennel seed and Nutmeg have been steeped an hour, must breath into the Lads Eye. Also he may lick his Eye, having first chewed seeds of Fennel or Eye-bright.

The Galls of Beasts are commended, especially of Fishes, and principally of a Skate or Thorn-back: Of Land four-footed Beasts, the Galls of Lambs, Swine, and Kids which are not past sucking.

Fomentations are not much approved, because they draw more humors than they digest, unless both the Body and Brain be first diligently purged. In Suffusions not yet inveterate, this Water does wonders.

Take *Juyce of Fennel half a pound; juyce of Clary and Celandine, each an ounce. Green Eye-bright two handfuls. Vervain, Marjerom, each one handful. Syrup of Roses four ounces. The best boney half a pound, Tutty prepared, Lignum Aloes, each two drams.*

Put all into an Alembick, and still them with a slow fire; with the Water wash the Eye, and drop a little gently thereinto. And though his age be very tender; yet the decoction of Guajacum cannot but be good in a very weak decoction, with Liquoris, Raisins, and Fennel-seed.

This Counsel was given by *Tagaultius, Sylvius, Alkasia* and *Flexellius*, Famous Physitians, when *Fernelius* was living.

Six Counsels of Simon Petreus, a most Renowned Physitian of Paris.

The first Counsel.

To cause easie deliverance of a Woman in Labour.

ITis hard to judge of the causes of that good womans difficult labour, concerning whom you write to me For besides that the causes of hard labour are sometimes manifest, as the over largeness of the Child, and the narrowness of the wombs neck, and the weakness both of the Child and Mother: they are sometimes so hidden and obscure, that the best Physitian cannot find them out. And sometimes it happens through a peculiar nature of the womb, that the Child is not therein rightly scituate, though the woman hath not transgressed in external things, as too strait lacing of her self, violent motion of her mind or body, and such like. And when I seriously meditate of the causes of that same hard labour wherewith this Gentlewoman is troubled, I find it to be a peculiar nature of her Womb, whence it comes to pass, that when by the mixture of both seeds the Child is shaped, it comes to have a depraved scituation. For your letters to me do not mention any external or internal manifest causes, which might bring this hard labour; unless peradventure we should blame the weakness of the Child, whereby it is not able to assist the labours of the mother to bring it forth. And there is, truly, some reason to conjecture the weakness thereof: seeing you signifie in your letter, that her womb settles downwards, now when she is gone but four moneths and an half, at which time the Child is not so great as to be a burthen to her. But whence this weakness of the Child should arise, I cannot easily judge, not being by you acquainted with the manners or course of life of this good Gentlewoman, whereof when you shall certifie me, I shall send you more certain advice touching this business. The premises considered, I conceive this Gentlewoman should be advised to use such Remedies as may strengthen her womb, and hinder it from settling downwards. To which purpose it will be good to apply *Emplastrum pro Matrice* to her loins.

Moreover her Belly must be born up, and her womb strengthened by convenient swath-bands fitly and duly applied by skillful Midwives. And that the womb may bear upwards, she must use cordial Lozenges, with Amber-greece, Civet, Bistort Roots and Coral in them. Also tie about her neck a Nodule which may touch her Stomach, made of Powder of Sanders, Saffron, Amber-greece and Civet, by the pleasing vapour whereof the womb may be allured upwards. And when the womb shall be stronger, and not settle so much downwards, I do very much approve the Expression of two drams of choice Rhubarb infused in Rosewater, adding half an ounce of Sugar of Roses; which she may repeat once or twice, if she find good by it, especially in her fifth and sixth moneths. Touching blood-letting, I cannot certainly tell what to advise, her womb being so weak, and falling so much downwards. Yet if there appear the signs of blood abounding, you may take away two small poringers. As to the latter end of your letter, wherein you desire of me such Remedies as may cause easie Labour, then when Nature shall set her self to exclude the Child, I have always judged that emollient Clysters are of great force; and then certain Liniments and softening oyls, to anoint her belly and loins. To the same intent, a syrup made of Cinnamon, Saffron, and powder of Date-stones, with Trochisks of mirrh is very effectual. Galen commends Castorium in this case, which is able to bring away the dead Child. The Ancients have commended the stone *Ætites* or *Ægle* stone to facilitate womens labours, being applied to their thigh; and to hinder Abortion, being applied above the Navil.

The second Counsel.

Of Mothers-fits, to a Physitian called Gravellanus.

I Received your Letter (most Learned *Gravellanus*) whereby you have acquainted me with a most grievous Symptom, wherewith your brothers wife is vexed; viz. Suffocation of the womb, whereof your self, this present moneth of *January*, have been an observant Eye-witness, after which a trembling of her head, and something like the Falling-sickness did follow, Which Disease though you have administred fitting remedies, has not yet quite left her, but is wont to trouble her by fits at uncertain distances of time. Now you conceive the original of this disease, is to be referred to her Womb, in the Cavity whereof some portion of corrupt seed being retained, does send ugly vapours into the upper parts, which according to the variety of parts by them afflicted, are wont to cause various symptomes. For when through the Arteries they rush into the Heart and Lungs, they cause ceasing of the pulse, and of respiration; if they possess the Coats of the Brain, they cause Convulsions, such as you have seen in this patient. I approve of this judgment of yours, touching this grievous symptom; but I conceive withal, that the depraved quality of melancholy juyce wherewith she abounds, is a concomitant cause. For her womb and spleen are confederate to do her mischief. And therefore if you would cure her, you must bend your Care to both those parts. And in my former Letter, I briefly shewed how to correct and tame the malignity of the melancholy juyce: I shall now only set down what may tend to free her womb from this symptom. And therefore as oft as this fit shall seize upon her, repeat those remedies which you have used, and then apply Cupping-glasses to her thighs. Let the Midwife put her hand anointed with butter and a little Civet into the neck of her womb, and rub the same, that it being provoked by that titillation may cast forth the corrupt seed: This is the advice of *Mathews de Gradibus*, a good Author. Moreover, lay to her Navil a Plaister of Treacle and Methridate, with a little Civet. Give her sharp Clysters made of simples respecting the Womb. Open the Saphæna vein after her feet have been washed in an hot decoction.

And when this Paroxysme or fit is over, that it may not come again, her whole body must be cured by purgation, and such remedies as I have described as prevalent against melancholy juyce. Sweet smelling things must be conveyed into the Neck of her Womb, especially in the fit, which may provoke the Womb to expel the seed; nor must Cordials to recreate her spirits be forgotten or neglected.

I do very much approve of Baths to sit in, made of softening seeds and herbs, and such as respect the Womb, that the passages thereof may be drawn back.

These are the things (friend *Gravellanus*) which I conceive fit to drive away this symptom. If any new accident shall happen, as soon as you acquaint me therewith, I shall write to you again.

The Third Counsel.

Concerning Hypochondriacal Melancholy, to a certain Physitian.

THIS honoured Gentleman, of whose Nature, and sundry Symptomes, wherewith he is wont to be tormented, you have accurately written to me, seems to be troubled with Hypochondriacal Melancholy, which I conceive is quartered not only in his Hypochondria, but in his veins in general. And it is to be feared, lest that at last it turn to a more grievous sort of Melancholy, of which he had some Rudiments, about twenty years since, as I am informed by you. I conceive the cause of this rooted Disease to be, not only an hot distemper, but a certain Cachexy or evil habit of his Liver, whereby out of meats of good juyce, it breeds bad Cholerick and Melancholick humors, by which Hypochondriacal melancholy is fomented, and those symptoms raised, whereof he complains, as that inward bone-pain of his whole Body, but especially of his Legs, which after his first sleep, he perceives to be extremely cold, unless peradventure wheyish tumors from his head where they abound, do flow into his Legs, and cause that sense of coldness. The premises considered, and the whole Order of his body (as you

you will judge) being weakned by this Contagion : he must at the beginning of the Spring be diligently plied with those kind of Remedies which are by you described, avoiding strong and drying Medicaments. Let him therefore frequently use two kinds of Clysters, the one of which must be purging of an emollient and carminative decoction, wherein Diacatholicon may be dissolved. The other must be fatty and oily to moisten and make slippery his Guts, without any Purgative in it. Then let him take Daicatholicon and Pulp of Cassia, each half an ounce. And when with this Medicament his stomach is well purged : make Apozems of a decoction of simples proper to the spleen and liver, with Violets and Hops. And when he has used the same decoction for four or five days together, after eight days the weather being temperate, give him two drams of Rhubarbs infusion, with an ounce of Syrup of Violets. Concerning blood-letting, this is my judgment ; I do not approve thereof, in this very lean and thin habit of body, nor at this season. But if in April, his Urines argue an inward heat, then it will be seasonable to let him blood, provided you take away but one small Chyrurgeons porrenger.

After his body has been prepared by these Remedies and well purged, the use of Asses milk will be good for him, observing such rules as a Skilful Physitian ought to observe. In the use whereof he must so long continue, till he find himself holpen thereby. And when he shall begin to loathe the same, give him then cooling broths made of Veal or Chicken. And when the Air is temperate, and in the Summer time, I very much allow your judgment, touching the frequent use of fresh water bathes, provided that sweat be not thereby caused. Nor must he omit the use of Syrup of sweet Apples, Bugloss, and Borrage, which he must use this Summer if his stomach will bear them ; as also the Syrup of Apples of King Sapor, may be prescribed when the weather is temperate. And because there is evermore joyned with the melancholy juyce a malignant quality, which bears a deadly feud to the vital spirit and noble parts of our body, they must be armed against the same with cordial Lozenges and Electuaries, in the prescription whereof, you must have respect to the stomach, which seems in this patient very weak, and distended with many winds, for the dissipation whereof you shall prescribe some convenient powder for him to take after meals, such as is that vulgarly used, made of common Dredge powder, with Coral, toasted Bread, and Sugar of Roses. Let his diet be of good juyce, such as can hardly be used in this time of Lent, unless he eat Eggs soft boyled, and Pikes with other Fishes that haunt stony places of Rivers. When Lent is over, he may freely use such meats as are fit to breed good juyce. As for the cold which he feels anights, after his first sleep he will easily avoid the same, if he shall cause two large stone bottles to be filled with boyling water and wrapped up in Linnen cloaths, and laid at his feet in the bed. For by this means, the heat will come into his legs and dissipate the cold. And if this Remedy shall not turn the cold, a liniment may be made of Hogs grease washed in Sage water, and mixed with Oleum Irinum and Aqua Vitæ; wherewith his Legs must be anointed and covered with Cotton wool.

The fourth Counsel.

Concerning a Flux of Rheume into the Lungs.

BY the relation of a most skilful Physitian, I understand that a Gentlewoman of about six and thirty years old, who has bore many Children, has this three years been troubled with a Fluxion of Rheume into her Lungs, which causes her to cough, and is like sometimes to choak her, especially then when her courses begin to flow ; which Fluxion, though it have continued long, yet there appears as yet no signs of her Lungs being corrupted, especially seeing she is not at all fallen away in her body, nor is there any appearance of a Feaver, nor is the strength of the natural faculty wanting in digestion and other actions thereof. But it is now to be feared, lest humors putrifying or becoming more sharp should exulcerate the Lungs. And that is most of all troublesome, that she feels a perpetual coldness in her head, of which she vehemently complains. For to stop this defluxion, most learned Physitians have appointed very many Medicaments ; whereby they have provided both for the health of her whole body, as also of the parts affected, her Head and Lungs ; howbeit there is as yet no good done, the same symptoms continuing, which did before trouble her : and therefore she desires Remedies from me, to stop that old defluxion of Rheum into her Lungs, and to free her from these inconveniencies, she is subject unto. Which that I may do it more conveniently, we must consider the

the cause thereof, that the same being known, may by convenient remedies be opposed. I conceive the principal cause thereof to be a cold and moist distemper of the brain, which as well from the reliques of its aliment, as from the vapors arising out of the parts beneath into the head, does breed many wheyish humors, which by the strength of the Brain are driven out into the Lungs. This cause is peradventure assisted by a distemper of the Liver being somewhat over hot, especially in a Body not enjoying the benefit of transpiration, such as is the body of a very fat woman. And seeing the Lungs have a long time received this defluxion, they are now thereby filled, and so a period holding tickle is caused by fits, which come at uncertain distances of time. And that I may give advice for the old infirmity, all our endeavour ought, I conceive, to aim, that in the first place, the humor collected in the head may be hindered from falling into the Lungs; and secondly, that what is already collected in the Lungs, may by convenient remedies be well brought up by coughing and spitting. Both these intentions may be performed, if her whole body be purged this fall of the Leaf with such Pills as are good for the Head, *viz.* Aggregative Pills, and *Sine quibus*, Agarick being added to them: which let her take twice a moneth, after her first sleep. But before the use of the Pills, her body must be purged with a decoction of Senna, made in a Pectoral Decoction wherein Agarick and Rhubarb must be infused, and an ounce of Syrup of Roses added to the strained liquor. To these may be added the frequent use of Clysters; and her body being purged, open the Basilica vein of her right Arm, and take away two small porringers of blood. Let her head which sends the defluxion into her Lungs, be cured with a Cephalick Fomentation, made of a Lie of Vine branches, wherein Orris root of Florence, Calamus Aromaticus, Schenanth, Betony, Marjerom, Sage, with Senna leaves have been boyled, adding at the end of the decoction a fourth part of Red Wine. With this her head must be fomented in the morning, for the space of an hour, and then being dried it must be anointed with Nard oyl and Chimerical oyl of Turpentine, with a little Aqua-vitæ, a long time together, laying Cotton wool thereon, filled with Powder of Florentine Orris, Marjerom, and Sage. Which if it do no good, and the coldness continue, provide her a Plaster de Betonica of the larger composition, adding thereto Benjamin, Storax, Pitch, and hot Cephalick powders, as of Orris root, Cyperus root, Marjerom, with a little Turpentine, to lay to her head, the hair first shaven off. From these we must come to Cauteries, which must be applyed to the top of her head, avoiding the sutures. Let her in the winter continue her Cucufa and head coverings, which have been ordered by faithful Physitians. Let her nostrils continue open; and if they hap to be stopped, she must first use light Errhines or Nose-liquors, then more strong ones, which are to be refused in this sort of disease.

To strengthen her head, make an Opiate, of Conserve of Rosemary flowers, Treacle, Mithridate, preserved Citron-pills, preserved Nutmegs; mixt with conserve of Colts-foot, and Borrage, and all made up with Syrup of Sæchados into the form of an Electuary.

And her Lungs in whose windpipes very much flegme is contained, must be cured with pectoral or cough decoctions, made of the Roots of Elicampne, Florentine Orris, Dragon, with Betony, Hyssop, Savory, and other Cough-medicaments invented by skillful Physitians.

Also a Lohock shall be provided of the Root of Arum or Cucko-pintle, and of Dragon roasted under the embers, whereunto being beaten, the pulp of Sebestens, Jujubes, Raitins of the Sun, with Diatragacanthum frigidum must be mixed, all being made up into a Lick-pot, with Syrup of Maiden-hair, which let her frequently take from a Liquoris stick. The powder of Fox lungs may be added thereto. It will also be good for her with open mouth to suck in the steame of a pectoral decoction. The Other forms of Cough-medicaments prescribed by her very learned Physitians, I exceedingly approve of.

The fifth Counsel.

Touching an Imposthume in the Kidney.

Bloody Urines coming away with certain scrapings or small fragments, do shew that this good woman is diseased in her Kidney, of the pain whereof she complains in her Loins; so that I much fear an Imposthume in her Kidney, especially since she has voided Flegmatick Urines, or rather such as have a shew of Quittor in them, the whole body disburthening it self into

into the weak kidney. Which mischief, unless timely prevented, 'tis to be feared, lest it bring her at last into a Consumption: Now the way to prevent the same, is to give her frequently emollient Clysters, and then boles of the pulp of Cassia Fistula, sometimes alone, and sometimes with Rhubarb. Afterwards, when the hot weather shall be abated, open the Basilica vein of her Arm on the pained side. And when by these remedies her whole body shall be provided for, we must then think of cleansing and strengthening her Kidneys. To cleanse her Kidneys, in the first place Almond milk made with Barley and Liquoris will be good, and after that the use of the Hydromel made with a large proportion of Water, when the weather shall be temperate; and Opiate of Conserve of Violets and Roses, with Electuarium Diatragacanthum frigidum, Pine apple kernels hulled and steeped in Rose-water, all made up with Syrup of Marsh-mallows. To the same intent broths are good, made of cooling herbs, as Lettuce, Purslane, Violet leaves, Marsh-mallows; also Barley broths taken in the morning. The last shall be Asses milk, which she must use a moneth or two in the morning, sweetned with Sugar of Roses. Her Kidneys being scoured she must use the Trochischi Gordonij with Diatragacanthum frigidum, dissolved in Hydromel. Her Kidneys must be strengthened with Unguentum Rosatum. In September when the air is temperate, let her use a decoction of China with Raisins and Liquoris, that the humors which flow from her whole body into her troubled kidney, may take their course another way. The course of life and diet prescribed by her learned and skilful Physitian must be diligently observed by her. In mentioning the Remedies to cleanse her Kidney, I have overpassed the use of Venice Turpentine, which wonderfully helps to scour the kidneys, being taken with Diatragacanthum frigidum.

The sixth Counsel.

*Touching swellings which had the appearance of
Cancerous Wens.*

SEeing these two tumors which appear at the brink of her left Arm-pit, have the shew of certain Cancerous Wens, as you have informed me by your Letters, I conceive you ought to deal very gently with him; nor must you use strong softners or digesters, lest they grow worse, but gentle ones, such as is an oyntment made of a little Diacalciteos dissolved in juyce of Plantane and Nightshade, all beaten together in a leaden Morter. Nor must you desist from that medicine till you see what good it can do.

Howbeit the use of External remedies will be then more convenient, when you have provided for the good condition of the whole body of this ingenious Damosel, which because it is tender and dry, as I understand by her Father, it must be gently handled. And therefore it must be purged with Cassia Fistula, Diacatholicon, or King Sapers syrup newly made, half the Saffron being left out. Which let her take twice or thrice in a moneth, with Whey wherein Epithymum and Fumitory have been infused. And because her nature seems inclined to breed melancholick juyce, even of the best meats, through fault of her Livers distemper: we must fight against that juyce with a Syrup made of juice of Bugloss, Borrage, Baume, Endive, sweet Prunes, whereof let her take a mornings with boyled water. To the same intent Asses milk will be good, which let her use every morning with a little Sugar. At the approach of Spring and Fall, her body being purged, let her left basilica or median vein be opened, and take two small Porringers of blood. Finally, make an Issue in her left Arm, near the muscle Deltois. This summer time let her frequently use a Bath of sweet fresh water, to correct the driness of her body. Moreover let an opiate be made for her of Conserve of Violets, Lillies, Roses Bugloss, Borrage, Citron peel, Confectio Alkermes, that by the use thereof the malignant force of the melancholy juyce may be amended, and the patients natural strength restored.

Let all her diet and course of life tend to moistness, and moderately to cool; refusing all meats that breed melancholick juyce.

Let her use Pisan instead of wine or a decoction of Coriander with Raisins. And when the heat of the weather shall be more remis, you shall order her Wine well allaid with water, which in this extremity of summers heat I do not allow.

These Counsels, being the Reliques and Monuments of my Father, I have gathered together and

and treasured up very religiously, and now (most learned Sir) I commit them to your Learning, Fidelity and Prudence, that with some commendatory mention of him, they may be published unto the World: yet so that you give all men to understand, that they were written by a man much employed, rather for the private benefit of the Sick, than to be transmitted to the Memory of Posterity. Farewel.

Your Friend, and most

respective Disciple,

SIMON PIETRE.

*The Counsel of a certain most Learned Physician,
touching divers infirmities of the Kidneys.*

WE have communicated our minds one to another, touching Persons troubled with the Stone in our former Letters, somewhat more briefly than to satisfy either of us. And I have promised that I will briefly handle some certain Heads or Points, which, though common, are far from vulgar.

They are far, I say, from vulgar, because I know not what, for an opinion has gotten head touching the use of Diureticks, and such like things; which *Hercules* himself is not able to pluck up by the Roots. Which work is so much the harder, because some principal Women, and who are highly esteemed by the common People, do Magnifie their Diuretick powders and simples, and offer them to the Diseased freely of their own accord, so that it seems now to have the force of a Law. But as one excellently well said, *They conceive witty, Rich and wealthy Persons, and of aged experience, worthy to be believed and trusted, wherein peradventure they are mistaken: but the opinion of the vulgar people can hardly be changed, and thereunto they square all things; both those that judge and those that follow their fancy.* Wherein consists a great Error, and of very large extent, far and wide: But especially in this Disease, the foresaid Error holds. Which nevertheless is a Disease of so great consequence, that 'tis reputed the Cross and Torment of Men; and wherein many times the Industry of the Physician languishing and becoming quite mute; we see in him rather a stupid blockishness, than the new invention of a profitable Remedy: And yet who does not profess the art of driving out Gravel, and of wasting the Stone; No old Wife but has her Desks and Boxes, stone-breaking and stone-forcing powders. Yet there is nothing wherein the common people are more blind and ignorant, and wherein the Industry of the Physician grows cold. But if possible, let us become wiser than others. Now certain Heads are to be by us, debated: 1. Whether the vulgar use of Diureticks be safe or not? 2. What that same Snivel and Flegm is which grows in the Bladder of those troubled with the Stone, and which they void? 3. Whether it be safe to scour that flegm away by stone-breaker, or it be not better to let it alone? 4. Whether it is best to temper the sharpness of Urine or not, seeing Acrimonious Urine has certain faculties of its own; for it is of a scouring Power? 5. We are to enquire what means that of *Hypocrates, Apalunai kai Malacunai*, to make tender and to soften? Whether it be not only intended before the use of Hellebore to avoid Convulsions: and contrariwise, whether it be not dangerous to soften and weaken the body of the Kidneys with Fomentations? 6. The last question is touching the consent of the Kidneys with the upper or lower Parts: Why the left Kidneys do not so usually ache as the right? why there is not in like measure an equal Sympathy of the Kidneys, with the upper as with the lower parts, seeing they lie in the middle of the Body; And first as touching the Diuretick or Urine-forcing Medicines. *Galen* confutes their opinion, who give hot and biting things promiscuously to all persons troubled with the stone. For the body is to be considered, and the matter it self, and the efficient cause. If the Body be very fat, intemperate, given to Gluttony; a man must deal otherwise than he would do if his Patients body were lean, Cholerick, full of hot and dry Heat. For a gross and fat

body fasting, and the use of attenuating things is good: but to an hot and cholerick person fasting is not good; nay, it is dangerous, as causing more matter to be heaped up. And the use of Diureticks is very good in the others, but in these latter dangerous. And the same Author distinguishing Arthritick and Diuretick Medicaments, will have them to be Diureticks, which are of forcible heat and Acrimony, and they do dissolve, melt and separate. And both of them do the same thing to persons that have the stone, as to persons diseased of their Lungs, and therefore they are forbidden to them both. But in the Diseases of the Lungs, because while they melt and separate the serous or wheyish substance, they render that which remains more stiff and hard to be brought up. Secondly, when Milk-provokers are distinguished from such things as move the Courses; the latter must be more biting and hotter, because the womb draws not to it self: contrariwise, Milk-provokers ought to be less hot, because both blood of it self goes to the Dugs, and is drawn thither: and why then do we use things so hot and biting to purge the Kidneys, seeing they have a most strong attractive faculty? It is one thing to be absolutely Diuretick, another to have the power of moving Urine, another to have the power to waite and wear the stone, or to cut the matter. Such as cut stony collections, though they cut, yet ought they not to be very hot. For too much heat contracts and renders the stone hard and compact by drying it, but does not cut the same nor divide it. And therefore those things which dry not and moderately heat, do breed Milk; such things as heat more, and dry not very much, provoke the Courses; and both provoke Urine: as also such things as heat and dry; and they are termed Diureticks, not because they alone move Urines, but because they move nothing but Urines, neither Milk nor Courses. But sometimes Diureticks are to be used, other whiles Ureticks; and these latter, when we would lenifie, moisten and dissolve the body of the stone, but not to melt and dissolve it by taking away the thinner part, and rendering the thicker more stubborn and rebellious to work upon. For things that moisten and cool, and withall in some measure move Urine, because they correct the dryness, they remove the occasion of more contumacious concretion or growing together of the stony matter. The Author of the Book of Kidney-diseases, who ever he were, waits the stone with things of a lukewarm temper. *For hot Urine-provokers harden the stone, but lukewarme things by little and little diminish the same, and make it not harder. For seeing the stone is gathered and compacted by over-much heat, luke-warm things are good, as being contrary to those things which did breed the stone. But Diuretick and very hot things do make the stone harder: But when there is as yet no stone, or it is not great, yet Obstruction is caused by Gravel, and by thick and clammy Juices, then you may safely administer hot things, and such as open obstructions.* Which is the Counsel of Galen, when he explains those two words, *Leptunai*, and *Hapalunai*, to attenuate and to soften; so as *Leptunai* to attenuate, is to be referred to the Humors; *Hapalunai* to soften, is to be referred to the solid Members. Although, saies he, we do not give Hellebore, it is good that the Humors be thin, and the body of the Kidneys soft, that the Humors may easily pass through them. *For the stone will never begin to breed, if a man shall have his Humors alwaies thin, and the body of his Kidneys soft.* And that I may conclude, it is one thing to consider, the sand it self and gravel to be voided, and another to consider the stone, which either is made or in making. For the Gravel, and against Obstructions, Diureticks, and things somewhat sharp, as detergents or scourers will be good: but for the stone in making, such as hinder its encrease, as scour away the adhering Gravel, cut and attenuate the glue, and sodder the stone. But for the stone already made, such things are good as soften, and have a certain lukewarm faculty, especially that the sharp, biting and dry heat may be tempered, which is the compacter and baker of the stone. If the law of Contrariety is to be observed, a Physician must oppose what is thick by such things as attenuate; what is hard, by things that soften; what is clammy and tough, by things which divide and cut. Now openers and Diaphoreticks have mixt forces; for Openers have a mixture of the powers of things which divide and make thin; and Diaphoretick, of the powers of Attenuaters, Aperitives and Detergents; for so the waies being opened, and the humor attenuated, that will be scoured off which was faulty, and forced into the Skin, to be driven out by sweat and exhalation. And now for that same Snivel of Flegmatick matter which grows together in the Bladders of such as are troubled with the stone, whence comes a Flegmatick stotty Urine; And M^r. Fernelius reckons, that such an Urine proceeds either from an Ulcer, or a stone contained in the Bladder. It resembles starch which

which Women uſe about their Cloaths, or rather the Muſilage drawn out of ſeeds infuſed in lukewarm water. 'Tis incredible what a deal of this Muſilage is voided by one that has a ſtone in his Bladder. Nor ceases it to breed in a Bladder with a ſtone, till the ſtone be taken out. But when the ſtone is taken away, its no longer voided. The Cauſe whereof is known to few, and requires more time and leiſure to ſpeak of. It is bred alſo in thoſe who have had a malignant Gonorrhæa, whence breeds the fleſhy knob in the piſs-pipe. For while that which is thin is voided forth, and the thick ſettles to the bottom, and Nature becauſe of its thickneſs and the ſtraitneſs of the paſſages cannot ſoften it; hence ſometimes a ſtone is bred. Sometimes the Urine is ſtopped; Hence the whole bladder almoſt is ſometimes taken up, while it ſticks to the walls of the bladder, and there encreaſes: hence the Patients have a continual provocation to make water, and many are brought to their laſt end. The Queſtion is, whether it be ſafe to ſcour off and cleanſe away the foreſaid ſlegmatick ſnivel by the uſe of detergent or ſcouring Medicaments; For in the firſt place, according to *Hypocrates*, it is as it were a glew, whereby the Gravel is combin'd and united into the form of a ſtone. Moreover it ſuppreſſes the Urine; and thirdly it fills ſometimes by its abundance the whole bladder, whence neceſſarily death muſt follow. Now ſometimes it is convenient to cleanſe the ſame away, and ſometimes ſnivel is ſerviceable to aſſwage the pain. For it daubs and covers the ſtone with its clammineſs; whence its roughneſs is made ſmooth, and cauſes leſs trouble. Alſo it blunts the ſharp corners of the ſtone by daubing and clamming the ſame. And therefore it makes the Patients life more ſweet and eaſefull. And haply (if my conjecture may find place) Nature by an inconfiderate and fortuitous prudence doth ſuggeſt this ſlimy matter, that the ſtone may be made thereby leſs offensive. Nor is there any need to ſcour away this ſlegm and muſilage, which would otherwiſe mitigate the Patients pains. For as long as it is not in ſo great quantity, as to fill the cavity of the bladder, ſo much profit comes thereby, that the ſtone being daubed therewith, becomes familiar to the bladder, and by that means much leſs pains do happen in making water. As touching the Urine, whether or no it ought to be lenified and tempered, may be reaſonably queſtioned: for what need have we to ſeek detergents and ſcourers from abroad, when we have an equivalent remedy at home. For the Urine does purge, ſcour, and waſh away. Yea, and ſome Stone-cutters after they have taken out the Stone, do judiciously forbear to put any detergent and purging Medicaments into the Ulcer, becauſe the Urine coming that way, doth by its cleanſing faculty ſupply their place. And when in perſons ſubject to the Stone, the Urine is tempered to avoid pain, it loſes ſo much of its cleanſing faculty. But I leave this to the conſideration of others. 'Tis now time to come to the laſt Queſtions concerning the proper ſenſe of the words *Apalunai* and *Leptunein*, I have already ſpoke occaſionally. *Hypocrates* ſeems to require a certain ſoftning of the Kidneys when they are too hard, and an exact attenuation or thin making of the humors, but that principally becauſe he ſpeaks of an Heleborate medicament, which is uſeful in young bodies and old diſeaſes, which cannot be ſtirred without a Lever. Now this ſoftning of the more ſolid bodies is therefore procured, that the Patient may not incur the hazard of ſuffocation, and that there may be no great occaſion of a convulſion. But *Galen* does more largely extend the ſenſe of thoſe words of *Hypocrates*: And though we uſe no Hellebore, yet he thinks the more ſolid body of the Kidneys ought to be looſened and mollified. But in Fomentations bathing and ſoftening, great caution muſt be uſed, for three inconveniencies follow. In the firſt place, frequent Fomentations effeminate the fleſh: alſo, by cauſing weakneſs, it weakens the, expulſive faculty eſpecially, ſo that it cannot ſo well quit it ſelf of what is moleſtful. Thirdly, thought I grant there may be great occaſions to uſe theſe medicaments; yet when the body of the Kidneys is made effeminate and ſoft, they become more apt to receive Excrements from the whole body, whence a relapſe is occaſioned. But the Phyſician muſt uſe ſuch care and providence, that when there is uſe of Baths and Fomentations, before he diſmiſs the Patient, he may again ſtrengthen the parts which have been for a time looſened and ſoftened: leſt (as *Galen* ſpeaks) they be brought to a Rheumatick diſpoſition, which is nothing but a facility and proneneſs to receive excrements flowing thereto from the whole body. But how far the uſe of theſe ſofteners muſt extend, it belongs to the prudent and diſcreet Phyſician to conſider. Moreover, the laſt queſtion has a certain latitude: For the matter propounded is the conſent of the Kidneys, with the upper and lower parts. Why the left parts, when the left Kidney is troubled, are more vexed than the right parts are, when the right Kidney is diſeaſed? Whether the upper and lower parts do equally ſympathize with the

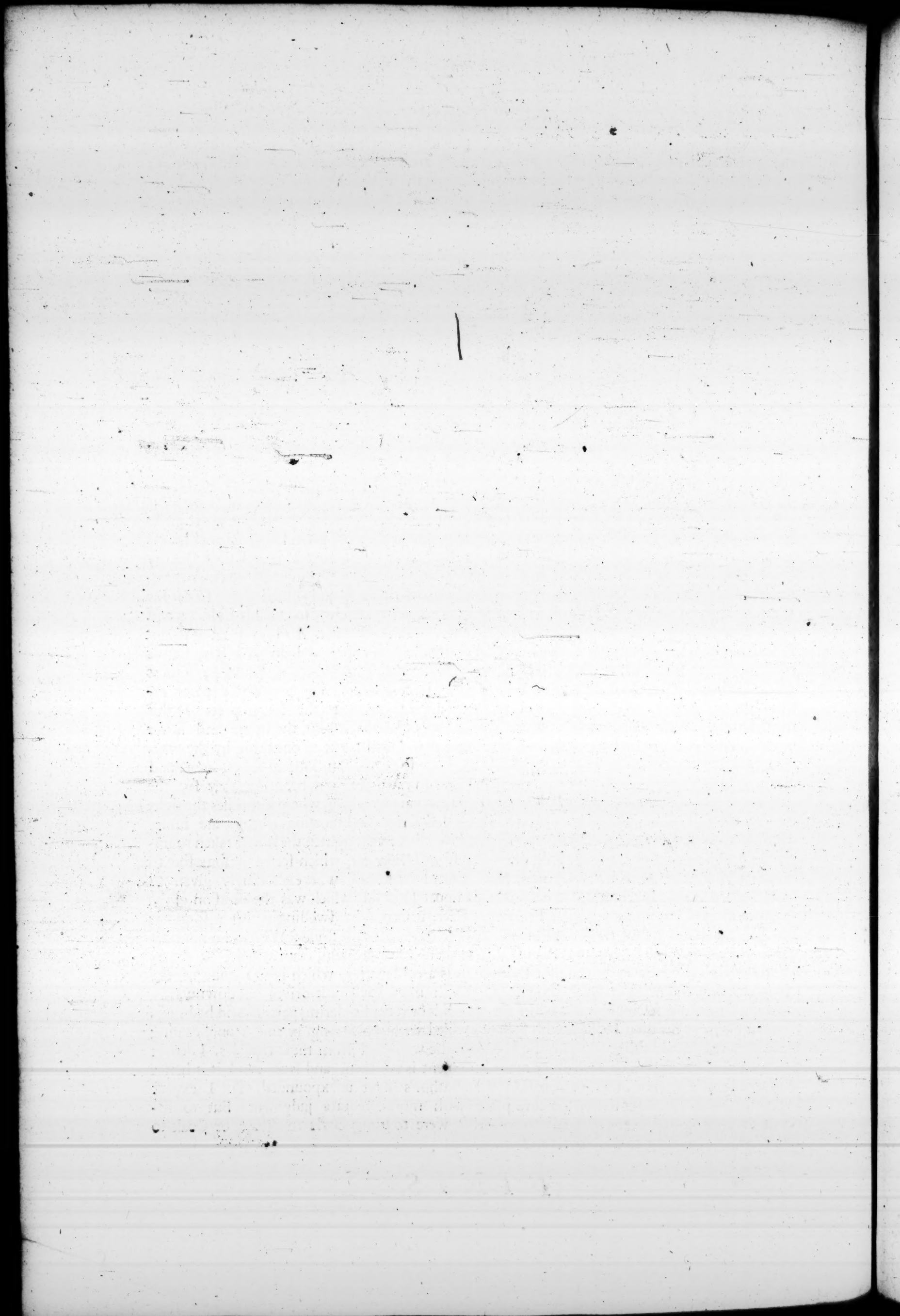
diseased Kidney, seeing it is seated in the midst betwixt both. And in the first place, when parts are diseased, it is very good to know whether they are affected of themselves, or by sympathy with some other parts. And *Hypocrates* did not impertinently at first admonish, that the differences of the pains in the sides or breast, and other parts was to be observed; as in some, the parts behind the midriff and the shoulder blades are pained; in others the thigh is nummed; yea, and in the same part there is a difference of the pains; for one pain is dull, the other sharp, in which case the prudent consideration of the Physician is desired. For the common people, and some unskilful Physicians do frequently by mistake attribute the cause of the pain to a Catarrh, when it wholly belongs to the Kidneys, and all the cure is to be applied to them. And therefore *Hypocrates*, an excellent Teacher writes thus, *Those who being diseased in their Kidneys, have pains about the Muscles of their back-bone; if they arise about the external parts, expect an Imposthume outwards, &c.* Whereupon, the most learned *Arculanus*, among signs of an Imposthume in the Kidneys, especially in the coats of the said Kidneys, reckons a difficulty in bending of the back, a troublesome Cough, and that the Patient cannot easily stand or go upright. And yet many so affected have been by Physicians cured, as if they were troubled with a Catarrh, whereby they have lost all their labour. And amongst the rest, diligent attention ought to be given to what *Hypocrates* writes, touching the sundry sorts of Diseases which molest the Kidneys. In explicating whereof, he writes, that among other concomitant signs of Diseases in the Kidneys, are pains in the Breast and Thighs. Yea verily many have been cured for the Pleurisie, when as the chief cause of the Disease was the Kidney, either having a stone in it, or otherwise diseased. *Hypocrates* celebrates two humors as chief causes of Kidney-Diseases, viz. flegm and choler. And it is to be observed, that great care be had, lest the greatness of the Kidney deceive us, especially such a greatness as some long and hidden disease has caused. For a Physician is often thereby deceived, believing that it is a tumor in the Spleen, and that those pains which arise often under the bastard ribs, are from the Spleen, whereas they proceed wholly from the growth of the Kidney. For dissection alone after the Patients death, declares that which the Prudence of Physicians could not attain unto. And therefore in the same part there are sundry sorts of pain: In the Kidney an heavy pain, and two wayes heavy; for that is truly heavy which carries with it a sence of heaviness, and *barea odune*, an heavy pain, is *Oxeia*, a sharp pain. For both these pains happen: The truly heavy, if the stone lie in the substance of the Kidneys; also if the substance of the Kidneys be inflamed. An acute pain, when other parts than the substance of the Kidneys are pained, as the coat incompassing the Kidneys (and it may be pained by a stone contained in the substance of the Kidneys by distention, in case the solid substance of the Kidneys be distended) the inner cavity of the Kidney, the Veins and Arteries which are terminated into the Cavity of the Kidneys, and the originals of the Uretors. This is the true Judgment of *Galen* concerning the causes of pain in the Kidney: Concerning which three occasional Questions may be asked. First, whether the Kidney may be inflamed, without inflammation of other parts; viz. The Veins and Arteries, because he sayes there is an heavy pain, that is with a sence of heaviness joyned thereto, when the substance of the Kidneys is inflamed, which would not happen if the Veins and Arteries were inflamed: for the pain would then be acute or sharp. Secondly, whether or no when the Veins and Arteries are inflamed, the pain is acute; For it seems not. Thirdly, whether or no to make an acute pain, it be necessary that all the foresaid parts be affected together at one and the same time? viz. The inner cavity of the Kidney, the mouth of the Uretors, the Veins, Arteries, and also the coat it self; or that they be affected severally? of which I shall dispute no more in this place, but leave this scruple in the minds of the Readers. I come now to the nummedness.

There was long since a prime Physician (as a mans reason and understanding is apt to mistake) who applied Remedies to one that had a numness in his Leg, as fearing that he would fall into the Palsie, until a more quick-sighted Physician declared the numness to be no beginning of the Palsie, but a sign of a disease in the Kidney of the same side: And at last the truth was discovered. I see *Galen* and the Author of the Book of Kidney-Diseases do a little vary; For thus sayes *Galen*, A numness is caused in the Thigh, by reason of the conjunction of the Vessels resting upon the back, viz. The *Vena Cava*, and the great Artery with the Kidneys and the Thighs: for they shoot very large into the Kidneys, but into the Loins they are not inserted large. But those who conceive the Kidneys are coupled to the Thighs by the Urinary passages or membranes or nerves, or the Peritonæum, are unskilful in Anatomy.

This

This is the opinion of the other Author; when the stone is bred in the Kidneys, that Vein is affected which descends unto the Thighs: for they are both from one branch of the *Vena Cava*, which Nature has distributed to the lower parts. Now the Vein which goes into the Thighs being filled, the Nerve or Muscle is compressed, whereupon the animal spirit does not pass unto the Thigh. Here mention is made of the Nerves, but in the other not: And one thing is to be noted, which the same Author observes, *viz.* That in the disturbance caused by a stone in the Kidney, one or other of the Testicles is drawn back, according as the right or left Kidney is affected. And how that comes to pass, they shew from Anatomy: It remains that we reason about the subversion of the stomach, and difficulty of breathing. The Kidneys (saith he) are placed besides the Back-bone, behind the Guts and Stomach. Therefore a certain violent distention being made in the Kidneys by the mutualities, the disease passes to the Guts and Stomach, and thence the disorder ascending the Stomach is made sick. And now happens that same painful distention, seeing the Kidneys by reason of their solidity are not stretched. For there is a certain contrary endeavor when the vessels are stretched, and the body of the Kidneys by reason of their solidity does not give way. Also they conceive, that a certain shortness of breath arises; by reason of the Midriff, which in its lower part is furnished with the Peritonæum, a coat which appertains unto the Kidneys, and above with a Membrane, which is stretcht out before the Ribs. In that the Midriff suffers with the Kidneys, being an Instrument of free breathing, it is a cause of shortness of breath. But certain Anatomists (as Nature sports her self with variety in several bodies) while they diligently follow the propagation of the Nerves, have found a remarkable part of those Nerves arising from the sixth pair, inserted into the Kidneys: which part passes through the middle of the Midriff, and reaches as far as to the Claviculæ or Chanel bones. Hence arises difficulty of breathing, and a sort of Orthopnæa. Whereupon a Person of Quality being troubled with a Disease in his Kidneys, and having withal the Orthopnæa, most men accused an hidden disease of his Lungs: others of more understanding, judged all came from his Kidneys, and that there was no fault in his Lungs. They set themselves to cure his Kidneys, and he recovered. And true is that saying of *Hypocrates*, Touching most hard and un-apparent Diseases, opinion judges rather than art. As for the consent of upper and lower parts, let us hear only *Arculanus*: There are other Symptoms, when the right Kidney is diseased, others when the left. When the right is troubled, the Liver is co-affected, and the upper parts rather than any others: If the left, the evil is communicated rather to the lower parts. Is this true? Do they differ in situation? Or are they equally placed betwixt the upper and lower parts? The Anatomists must resolve us in this particular. I shall speak of one thing by the way, which some have observed: When there is a like cause of pain in both Kidneys, more and greater troubles arise from the left Kidney diseased, than from the right, because as they say, the Gut *Colon* where it touches the left Kidney, is much narrower than where it touches the right Kidney. Of which, consult Anatomy. And because less serious and sporting matters are sometimes to be joyned to serious, that the less serious may somewhat lighten the labour taken to understand the more serious; I will alledg one thing from *Hypocrates*, which seems in some sort to be reckoned among Miracles. A certain Man named *Moschens*, was exceedingly given to breed stones; a little swelling broke out upon his upper Eye-lid, which was the occasion of the breaking away of his lower Diseases. From this place, it seems the swelling which rose on the Eye-lid, a part far distant from the Kidney, did cure the man of the stone: Which is a kind of a monstrous thing. One Interpreter refers the cause thereof to the Brain, from whence he draws a certain original of stones, because the Brain affords a cold matter, which is the cause of the stones growing and being congealed together. Which matter when it drives not downwards, it breeds something resembling stones in the Eye-lids or other bordering parts. And he brings an example from his own Father, who being troubled with the Strangury and Stone, causing himself to vomit, and diligently purging his Brain, he was freed from those troubles. I do not condemn the Opinions of others; every mans judgment is his own, and free. And it is better to invent some reason or other, than pass over an Author's Text unexpounded. But I expect some others will give light to that obscure place with more accurate judgment: But to discourse over-long and over-accurately to an Artist, were to bring Owls to *Athens*, or Coals to *New-Castle*, according to the Proverb. Farewel.

F I N I S.





Additions of

OBSERVATIONS AND HISTORIES OF Famous and Rare CURES.

R Eader, There is 591 Observations or Histories of Famous and Rare Cures printed before these Additions came forth, as you may easily discern, if you look into the 321 Page, which ended with the 513 Observation. Those following untill this Page, make up 591.

OBSERV. I.

Of an Heſtick Feaver.

592. **T** H E Daughter of Monsieur d' *Aumelas*, General-Treasurer of France, being Thirteen years of Age, had been Sick Eight Moneths of a lingering Feaver, which was thought to be an Heſtick, because in all that time it could not be cured by two most expert Physicians, who had her in hand one after another, and had given her all such Remedies as are usually prescribed for the Green-Sickneſſe, and to open the Obstructions of the Bowels: but the Disease brought the Patient into an extream leanneſſe and weakneſſe of her whole body, so that all counted her Condition desperate. And that the rather, because she was troubled with a continual Vomiting, which took her in the mornings as soon as she awoke, and continued till Dinner-time, so that she cast up all the Medicaments both alterative and purgative, which were given her in the mornings. And so she seemed to be past hope of admitting any Medicament. When at last being committed to my Care, having foretold, that there was small hope of her; I applied my

mind to two things: First, That she should have more effectual Remedies than any had yet been used: Secondly, That care might be taken that she should not vomit her Medicaments after she had taken them. Those more effectual Remedies were to be fetcht from the shops of the Chymists. And for better retention, they were to be well tasted, and to be given at such times as her vomiting was least urgent. Being therefore informed that from noon to bed-time she was not vexed with vomiting; I conceived her Medicaments were to be given in the After-noon. First therefore I prescribed her Lozenges of two drams of the Stomach-Medicament of *Poterius*, and six ounces of Sugar; whereof she took two drams every day two hours before Supper. Having continued these Lozenges for eight daies, she took four grains of *Aurum Diaphoreticum*, and then continued the use of her Stomach-Lozenges eight daies longer; which time being past, she took the *Aurum Diaphoreticum*, again; after the taking whereof, that same lingering Feaver which was counted an Heſtick, went quite away; also her vomiting ceased. Wherefore from that time forward she took her
Medi-

Medicaments in the morning. She had every morning for a moneth three grains of Balsom, of Peru made into Pils with Sugar, and drank a little strong Wine after them. This is a rare Medicament to strengthen the stomach and open Obstructions. And during the moneth aforesaid, she took also in the evening her Stomach Lozenges, and once a week the *Aurum Diaphoreticum*, and so she perfectly recovered.

Observ. 2. A Double *Tertian*.

593. Monsieur Gerard, Councillor in the Court of Accompts, Subsidies, and Royal Exchequer, being sixty three years of Age, had been sick of a double *Tertian* five weeks, in which time many Remedies had been applied by another Physitian; a Vein was four times opened, he was many times purged, and many Juleps and other Medicaments were given him. And yet his Disease grew worse and worse, and the fits became more grievous; so that when I first came to him, I found him astonished and stupified as it were with a dead sleep, and the by-standers were very much afraid of his life. Now so great was his weakness, that I conceived no evacuation was to be used. Wherefore the first day I took charge of him, I gave him this following Julep one hour before his Fit.

Take Cichory Water three ounces; Salt of Wormwood half a dram; Spirit of Sulphur one scruple: mix them all into a Julep.

On the second day the same Remedy was repeated, which he took an hour before his fit; after which his Urines were better, and shewed good signs of digestion; whereas before they appeared exceeding crude. On the third day the same Julep was repeated the same hour, and the fit was very small. The fourth day in the morning, he took the following Potion.

Take Senna two drams; Salt of Tartar half a dram; Spirit of Vitriol ten grains; Cichory Water six ounces. Infuse them cold all night. And in the morning let him drink the strained Liquor, and order himself as belongs to the taking of a Purge.

He had divers stools, and bare them well. And that day his fit appeared not, nor ever after, and so he was perfectly cured.

Observ. 3. Of a Dropsie of the Breast.

594. On the twentieth day of the Moneth of June, in the year 1646. I was called to Mr. Daniel Verchand, a Citizen of Montpellier fifty years old, having for three moneths been troubled with a very great shortness of

breath, for which he had taken many Medicaments, prescribed by his ordinary Physitian, and in sundry Consultations with other Physitians, but all in vain; for I found him puffing and almost choakt for want of wind. I conceived that he was troubled with a Dropsie of the Breast, since he had no cough nor rattling, nor was any thick and clammy flegm spit up, as is wont to happen in a true Asthma. Moreover his Legs were swollen with an Oedematous Tumor, and his belly began to swell, so that he seemed to have the Dropsie *Ascites*. Moreover, for two moneths he had not lien in his bed, but was forced to sit day and night upright in a Chair. Now I despairing of his Recovery, would not prescribe any Remedies; but he earnestly beseeched me to give him some ease in his breathing, which was so extream short. Wherefore, overcome with his Intreaties, endeavouring only to give him some refreshment, I prescribed him the day following a Bolus of one scruple of Calomelanos, with ten grains of Diagridium in Conserve of Roses. He was seven times purged by stool, and voided a great quantity of Serum, whereupon he was much eased that very day, so that he breathed much more freely than before. After two dayes the Remedy was iterated with like success, and the following night he lay in his bed without any oppression of his Breast. His swollen belly being fallen, I could feel his Hypochondria, and I found his Spleen great and schirrhous. And therefore I prescribed opening Apozemes, with Salt of Tartar, and Spirit of Sulphur; also Fomentations and Liniments to be applied to his Hypochondries, with the foresaid Purgation iterated every third day. Which things being continued fifteen dayes together, he was reduced to a much better condition, so that he conceived himself perfectly cured; yet one moneth being slipt away, all the symptoms returned, his belly swollen bigger, and two moneths after he died. Observe in this Story the exceeding great Efficacy of Calomelanos, which could give so much ease in a deadly sickness.

Observ. 4. A Palsy.

595. John Alberger fifty years of Age, for four moneths had been troubled with a Palsy of one side of his body, viz. The right side, so that he could hardly speak or pronounce his words plain. He was for a whole year troubled with this Disease, and in that while he used many Medicaments to little purpose. But I undertaking his Cure the 26 day of June, the year 1646. gave him a Bolus of *Bezoardicum minerale* twelve grains,

grains, with Conserve of Roses, which he was to take twice a day; and every fifth day one scruple of the smaller Cochie Pills with eight grains of Mercury calcined by it self, without Corrolives. With which being continued for twenty daies together, he was perfectly cured.

Observ. 5. *Bleeding at the Nose.*

596. A strong man thirty years of age, of a cholerick temperament, was almost dead with a stubborn bleeding at the Nose. After many Remedies tried in vain, at last by the Counsel of a certain Physician, being removed out of his bed upon the floor upon a Blanket, and all his Body being covered with Sheets wet with Oxycrate a long while, till he was taken with a shaking; he was then carried to Bed, and after his shaking he had an hot-fit, upon which followed a sweat where-by he was cured.

Observ. 6. *A Fit of the Mother.*

597. On the 17. of July, 1646, the Maid Servant of my Wife named *Ludovica Costa*, was suddenly taken with a most grievous pain so cruelly tormenting her right side and Loyns, that she was compelled continually to cry out. She having no Fever, I conceived that it was a Womb-fit. Wherefore I presently gave her a Cup of Oxycrate, which she vomited up after a quarter of an hour with much flegm. After her vomiting was ceased, she took another cup of Oxycrate, and her pain presently vanished, and she was cured.

Observ. 7. *A Nephritick Pain.*

598. The 20. day of July, 1646. Monsieur *Jacob Lemadre*, Student of Physick, and my Sons School-Master, was taken with a very grievous Nephritick Pain. His Urines were red and bloody. First a Clyster was given him of an Emollient Decoction, with one ounce of Diaphoenicon, and four of Aqua Benedicta, the which did little good. The following day he was let blood ten ounces, being full of blood. Yet the Pain continued. The third day he had again the foresaid Clyster, which gently purged him all day, so that he had ease by fits; and the same day he was wholly freed from his pain, having voided two very small Stones. The foregoing Clyster is most excellent against the Cholick and Nephritick pains, as you may see in the other Centuries. Observe here, that if the Clyster do not perform its office at first, it is to be repeated again and again.

Observ. 8. *The Disease Cholera.*

599. The Wife of *Peter Portalon*, a Citizen of *Montpelier*, was taken with the Disease *Cholera* on the 23. of July, 1646. about noon, and she had twenty stools by that time it was night, with most grievous pains, infesting not only her Guts, but her Stomach, so that the day following she was troubled with vomiting, and voided many sharp and cholerick humors. Her Husband sought my Advice in the evening; whiles other Remedies were providing, I advised them to give her a draught of Oxycratum; the operation whereof was so effectual, that her vomiting and looseness were presently stopped, and no other Remedies were used; the Patient averring that she was perfectly well.

Observ. 9. *A Carbuncle.*

600. The Son of *Peter Bowjac* a Merchant of *Montpelier*, being four years old, was troubled with a Carbuncle for three daies together, and no Remedy had been used. I visited him on the 22. of July, in the year 1646. Now the Carbuncle was in the middle of his forehead with a red Tumor, very black in the middle, and all his Face was much blown up, I ordered in the first place, that to fix the Carbuncle a Caustick should be applied to the Eschar Unguentum Basilicon with Treacle, Oyl of Scorpions of *Matthioli*, and the yelk of an Egg: and to lay all over the Tumor a Pulvis of Lambs-tongue Plantane. At the same time a Clyster was injected, and when that was voided, blood-letting was repeated, which had been celebrated in the morning, and the day before. A Vesicatory was applied to his Neck, and a Cordial Potion prescribed, and Confectio de Hyacintho was appointed to be given in all his Broths. The day following I found the Fever very much abated, the Inflammation of the Tumor asswaged, and all things mitigated; and therefore I conceived the Patient was neer recovery. In this case the use of the Vesicatory is chiefly to be observed, which deriving a great part of the virulent humor, may be supposed to have performed the greatest part of the Cure. And therefore I conceive it ought to be used in every Carbuncle, and to be applied to a part neer the Carbuncle. The Defensative made of the Oynment of Bolus, which is commonly used in these Cases, I thought not fit to apply, because Repellers laid upon the Face in Inflammations thereof are very hurtful.

Observ. 10. *An Epilepsie.*

601. A Maid that had the Falling-Sickness was cured by the use of Oxycraturum, a draught whereof she took every morning, and before the fit she drank pure Vinegar. The Disease being cured, she was taken with pains of her Limbs, which were cured by the use of hot Baths.

Observ. 11. *Spitting of Blood.*

602. John Figuiere, a Citizen of Montpellier, was troubled with a Spitting of Blood three years together, whereby at several times he voided blood in a great quantity. At last after many Remedies, he took for a moneth together Starch boyled in water, (and made without Chalk) like Panada; and ever after he was freed from his spitting of Blood.

Observ. 12. *A Tertian Ague.*

603. In the moneth of August 1646. M^r. William Dortomannus, a famous Advocate, sixty years old, of a Cholerick Complexion, was troubled with a vehement Tertian Ague; and he was four times let Blood, and once purged in the space of fourteen daies. Moreover, he used cooling and opening Juleps; also before the sixth and seventh fit, a specific Medicament was given him of Salt of Wormwood half a dram, Spirit of Sulphur one scruple, with three ounces of Cichory Water; whereby his fits were abated. Finally, an hour before the eighth fit a Vein was opened, he having first taken a Decoction of Chamomel and Cream of Tarter, and the Plaister of Strobelbergerus being applied to his Wrists. By which Remedies the expected fit was kept off, and no signs thereof appeared.

Observ. 13. *A Quartan Ague.*

604. The Daughter of Monsieur Ducabe of Poussan being fifteen years old, was troubled with the quartan Ague fourteen moneths, and being brought to Montpellier she was committed to my Care. I gave her the 22. of August, 16. grains of my Feaver or Ague-chaser, and she had ten stools and two vomits, wherewith she voided at first sour, and afterwards bitter humors. She had one fit after that, and no more.

Observ. 14. *The Stone in the Bladder.*

605. The most renowned Gentleman, M^r. de Burcin, President of the Parliament

at Grenoble, in August 1645. was taken with a Nephritick pain; from which after some daies he was suddenly freed, although no stone was by him voided; whereas at other times being troubled with like pains, he was wont to be freed by voiding of small stones. Whereupon I conjectured that the stone being voided out of his Kidneys through the Uretors was stopped in his Bladder. Nor was I mistaken in my Conjecture, for from that time forwards, he felt frequent titillations about the Sphincter of his Bladder, sharpness of Urine, and pains which did reach to the Nut of his Yard. He used many Remedies all the year long at times, and at last in the moneth of August 1646, he voided a stone as big as a Hazel Nut, but in shape like an Olive stone; But it passed with so much difficulty through the Channel of his Yard, that it was fifteen hours passing from the mouth of the Bladder to the Root of the Nut of his Yard, where finding the passage straiter than ordinary, it could by no means pass the same; and therefore we were constrained to take it out by cutting the Nut, which was done in the lower part near the frenum or bridle. The Remedies which had been in the last place used, and which were chiefly thought to drive out the stone, were such as these.

After Universal Evacuations, he took for a moneth together Pills made of the Salts of Ivy-berries, and Water-creffes, Crystal of Tartar and Mineral, of each a like quantity made into a mass with Turpentine, of which he took for nine daies together the water of white Onions distilled with white Wine, the quantity of three ounces, to which was added the Salt drawn out of the *Caput Mortuum*, and on the ninth day he voided the foresaid Stone.

Observ. 15. *A Tertian Ague.*

606. Monsieur de Crouset, President and chief Judge in the Court of Aides, was taken with a double Tertian Ague, in the moneth of August, 1646. And that this Ague was in some measure malignant, appeared by the slowness of his Pulse in the Fit, and the great coldness of his extream parts, which did not recover their heat during the whole fit. He had been twice let blood, and a laxative and cooling P^{ti}san was twice given him; also in some fits he had taken fifteen drops of Spirit of Sulphur in a cup of water. He had twice taken the Julep of Cichory water, Salt of Wormwood, and Spirit of Sulphur, and Strobelbergers Plaister was laid to his wrists. And

And finally, the cooling Treacle Water by me described in my Chapter of the pestilential Fever was given him the quantity of three ounces before the two last fits. By which Remedies within fifteen daies he was cured of that dangerous Disease.

Observ. 16. *A Tertian Ague.*

607. Monsieur *Massanne* General Treasurer of *France*, in the moneth of *August*, 1647. was troubled with a double Tertian, wherein two fits were seen upon one and the same day, the following day being free. Another Physitian had him in hand twelve daies, the Disease growing every day worse and worse. Afterwards he implored my help, and had his two fits the same day, which lasted thirty hours. At the beginning of the next fit he took by my advice a Decoction of Chamomel and Crystal of Tartar, and at the same time he had a Vein opened, *Strobelbergers* Plaister applied to his Wrists. He had only one fit, and that a light one, and the third day after he was quite freed, taking in his two fits fifteen drops of Spirit of Sulphur, and cooling Juleps with the same Spirit, twice a day. Before the last fit save one he took a laxative and cooling Pilsan; and before the last he drank three ounces of my cooling Treacle Water. Then also there was applied to his stomach a Pultis of Tansey, Aromatick Pouders, and Turpentine, on a Rose Cake, and the said last fit was very little or none.

Observ. 17. *The Small-Pox.*

608. The young Son of *N. Benoist* a Merchant of *Montpelier*, being twenty three moneths old, and taken with the Small Pox, on the second day of his Disease he fell into a Coma and Convulsion Fits, with so great weakness that it seemed he would die in a few hours. Being called to him on the 12. of *November* 1645, which was the second day of the Disease, I presently prescribed blood-letting, and blood was taken away to the quantity of four ounces. Then was given frequently out of the Spoon a Julep made of Carduus and Scabious Water, each three ounces; Trochisks of Vipers, and *Bezoardicum Minerale*, each one scruple. At the same time he took every third hour ten grains of *Bezoardicum Minerale*, with a little Broth; which Remedies being continued two daies together, all his body was sprinkled over with the Small Pox, which afterwards grew to their just magnitude, and the Patient did well afterwards.

Observ. 18. *A Bastard Pleurisie.*

609. The Wife of *M^r. du Cros*, Auditor in the Court of Accompts, had an Erysipelatous Swelling in her Leg seven or eight daies with a continual Feaver; from both which Diseases being freed by the care of her ordinary Physitian, she went too soon into the cold air, wherein she fell into a pain in her side, with a Feaver, Cough, and shortness of breath; also some spittle came from her infected with blood. She was let blood twice or thrice, and other Remedies were applied, good for a Pleurisie. I being called to advise on the 19. day of *November*, which was the fifth day of her Disease, I conceived that a purging Medicament was to be given her the following day, which seemed nevertheless against the Rules of Art and the ordinary Method; by which it is ordained that Pleuritick persons are not to be purged before the seventh day. But these following reasons seem to call for the said blood-letting. 1. Because the said Pleurisie did not seem to be a true and exquisite Pleurisie bred of an Inflammation of the Membrane, but rather a bastard Pleurisie arising from a thin and serous defluxion, or sharp vapors arising from bad humors in the lower belly, and twitching the Membrane which cloaths the Ribs. This was hereby collected, because blood appeared only now and then in her Spittle, and that very little like a thred, which could not come in so small a quantity from the Pleura inflamed, but rather from some little Vein opened by the vehemency of the Cough; or it might come from her brain, seeing about the same time she had bled a little at her Nose. Secondly, Because that same pain of hers was not continual, but went away by fits, and came again, and at the time of our Consultations she scarce felt any pain, also her Feaver was very gentle. Thirdly, Because during the whole time of her latter fit, she was troubled with continual watchings, though the pain of her side was sometimes very much abated, even in the nights; whence it might be gathered, that those intense watchings did proceed rather from putrifaction of Humors and an essential Feaver, than from a Pleurisie. Fourthly, Because the Patient all the time she had the Erysipelas, would not take the purge which her Physitian had appointed her; and so the whole mass of bad Humors continued shut up in her body. She took therefore a purging Medicament the sixth day of this latter Disease, of Senna, Rhubarb, Manna, and Syrup of Roses compound, whereby she was gently purged with happy success: for she never after felt the pain in

her side, nor was she troubled with watchings, but only with a small Feaver, appearing in the evening. Afterwards by the use of some gentle Remedies, she attained her former health.

Observ. 19. *A Whitlow or Felon.*

610. The Wife of M^r. Sartraus, Councillor in the Court of Accompts and Subsidies, being four daies troubled with a Felon or Whitlow, she put her finger into a Cats Ear, and was cured in a quarter of an hour. She felt at times an heat come into her shoulder and Arm, and descending by little and little with a most grievous pain of the end of her finger, which heat would a little while after go away, and then come again with a like pain. And the Cat did violently struggle by reason of the pain of her Ear, so that she could hardly be held by two men. Hence we may collect, That there is in the Head of a Cat, a certain Magnetick faculty which sympathizes with the qualities of a Felon or Whitlow, by means whereof it draws unto it self the venome which lies hid in the Tumor.

Observ. 20. *A Tertian Ague.*

611. On the 27 of October, in the year 1646, being called to the Town of Aimagues, to see the Wife of M^r. Columellus Auditor in the Court of Accompts, being twenty two years old, who had been troubled with a double Tertian seven daies together, and was once let blood, but took nothing. On the eighth day she was let blood again in her left Arm, because her Spleen appeared stretched and swoln. On the ninth day she took an Infusion of Senna with half a dram of Cream of Tartar, and on the same day Crollius his Ague-Medicament before her fit. On the tenth day she took the said Ague-Medicament again, and her fit came no more.

Observ. 21. *Palpitation of the Heart, and Inequality of the Pulse.*

612. M^r. de Beeharan, Councillor in the Court of Accompts, Subsidies, and the Kings Exchequer, in the beginning of the month November, in the year 1646, came to me, and complained of a Palpitation of Heart which for some daies had troubled him. Feeling his Pulse, I found it unequal in all the kinds of Inequality, so that it presently brought to my mind that same Story in Galen concerning Antipater the Physician, whom he conceived to have an obstruction in his Arteries, or a crude Tubercle. He had

then no shortness of breath, and the Patient performed his wonted business, going dayly to the Court, nor would he take any Pnytick save on Holy-daies. I presently prescribed him to be let blood twice, and afterwards I purged him, and so he amended. Ten or twelve daies after he complained of the same Malady. I prescribed for him sundry attenuating Medicaments and Cutters which did not heat, which nevertheless he took not, being encumbered with sundry Affairs. At last in the beginning of December, he took his bed with shortness of breath, and swellings in his Legs; and then he used the Medicaments prescribed, with Phlebotomy repeated, which being continued for twelve daies, and doing no good, but the Malady growing continually worse, a Counsel of other Physicians was called, whose opinion was, That it was a Disease like that mentioned by Galen in his 4. *de locis affectis*, cap. 8. concerning Antipater the Physician, and so that it was to be opposed with cutting and attenuating Medicaments. Sundry forms of Medicaments were prescribed to this intent, which it were in vain to recount, because they did no good, but the Patient grew continually worse and worse, being extreemly short winded, and no pulse appearing in his wrist, yet his hand being laid upon the Region of the Heart, a most frequent Palpitation might be felt, very weak and uneven: for the swelling of his Legs was so far encreased, that it came now up into his Thighs. Remedies were prescribed like the former, to which were added Cordials internal and external. Two daies after the Patient seemed to be at the last cast; he was extreemly stifled, no pulse appeared in his wrists, and hardly any in his Heart. The same day it was conceived he would die, I ordered thereupon a Cupping-glass to be applyed to the Region of his Heart with Scarification, (by the help whereof Zacutus Lusitanus, Observat. 133. Lib. 1. *Praxis admirandæ*, testifies, that he freed a certain Patient from a desperate Palpitation of the Heart) whereupon he was better, and the following night he began to void by spitting exceeding black blood, thick and clotted, with a troublesome Cough, whereupon he did fetch his breath more easily. To help his expectoration, he frequently took Syrup of Colts-foot with a fourth part of Oxymel simple, and broth of an old Cock made with Pectoral things, once or twice a day. These Remedies being continued for 4 daies together, the Patient continued in the same condition, continually voiding thick and black blood. On the fifth day after his spitting of blood, which was the fourth of January, 1647. I gave

gave him twelve drops of *Elixir Proprietatis*, with a little strong Wine, by which the Patient was eased, and the whole night following he did spit up more easily. On the sixth day he took the Elixir again and his Cock Broth: but he was never the better; but his shortness of breath continually encreasing, on the eighth day in the evening he died. His body being opened, both the Ventricles of his Heart were found full of clotted blood, and distended, also his whole Lungs were full of blood; whereupon there was a suffocation of Natural heat in both those parts. A few daies before his death, the Procatactick cause of this Disease was related to me, which the Patient had not acquainted me with, viz. A great fright which he had taken, when passing from *Arelatum* to *Montpelier*, upon the River *Rhodanus*, he had like to have been cast away with his Family. Hence we may conjecture, That by the fright his blood retired in so great quantity to his Heart, that it could not thereby be governed, but clotted together in the Ventricles thereof. And so his Heart continually labouring to discharge that heavy burden, caused those trembling and unequal palpitations. Also the blood continually ascending through the *Vena Cava*, and finding no free passage to the Heart, flowed back to the Lungs and filled the same. Moreover, in the left Ventricle of the heart were found round Caruncles, resembling the substance of the Lungs, the bigger of which was neer as large as an Hazel Nut, which did shut the passage of the *Arteria Aorta*, which caused (as I conceive) a defect of the pulse in his Arteries. Now I suppose those Caruncles were bred of superfluous blood, which the great heat of the left Ventricle had baked, and changed the same into such a like substance. A like Caruncle and much greater was found eight daies before in the right Ventricle of the Heart of a certain Soldier, who was dissected in the Anatomical Theatre, having been killed by another Soldier. Yet he did formerly enjoy his health well, because the said flesh did in part stick to the sides of the Ventricle. From the Premises it is apparent, That blood being shed into some Cavity, is now and then changed into such like Caruncles by the digestive heat: which we may better confirm by other examples: This alone may serve instead of all, being a thing notoriously known, That very many women especially such as are barren, whiles they have their Courses, are frequently wont to void certain small Caruncles with their Menstrual blood. Which thing mostly happens in such as are of an hot Constitution, because of the excessive heat of their Wombs,

the Particles of blood are baked and changed into such like Caruncles.

Observ. 22. *An old Venereal Pox.*

613. A certain Courtier came to *Montpelier* to be cured of the Venereal Disease, wherewith he had been troubled sixteen years, with knobs in both his Legs, whereby he was so pained that he could not sleep in the night. He was by me perfectly cured within a moneth, being let blood in both his Arms, purged by Apozemes, and taking a Sudorifick Diet Drink twice a day for twenty daies together, which was made of a Decoction of Guajacum and Antimony. Now he was made to sweat by the vapor of Spirit of Wine. Every fifth day I gave him a dose of my Antivenereal Medicament, and the Maladies in his Legs were cured by application of Vesicatories, and repeating the same twice or thrice, when they ceased to run, and became dry.

Observ. 23. *A Strange sort of Semitertian Ague.*

614. *Johannes Gerrardus*, a Citizen of *Sommedre*, with a continual flegmatick Feaver was troubled in February, 1647. To whom this remarkable accident did happen. On the twenty eighth day of his Disease, there were joyned to his continual Feaver the fits of a Tertian Ague, beginning with a notorious shaking; which fits returned twice a day, and an intense Feaver continuing for many hours, they were ended with a light sweat, his continual Feaver perpetually remaining; so that this Feaver seems to have been a sort of Semitertian, made of a continual Quotidian, and a fourfold intermitting Tertian. For if we call that a double Tertian which returns once every day, it is reasonable to call that which returns twice a day a fourfold Tertian. I have elsewhere too observed a triple Tertian, which returned three times in two days space, viz. After every sixteen hours.

Observ. 24. *Inflammation of the Almonds, Throat and Tongue.*

615. In the end of February, 1647. the Wife of *M^r. d^r Aumulus*, General Treasurer of *France*, was taken with the foresaid Disease, which hindered her swallowing and speech. The Malady continuing after she had been four times let blood, and her Tongue being injected with many small tilcers; I conceiving the Disease to arise from a defluxion of much and very sharp serous matter,

ter, and that Purgation was necessary, but the Patient could not take a Medicament. seeing she could hardly sip a little broth, I gave her six grains of *Resina Jalapii* in a soft Egg, whereby she was gently and largely purged, and the day after she began to eat and speak freely.

Observ. 13. *A double Tertian Ague.*

616. In the moneth of July, 1647. M^r. de Rouanel Chief Arch-Deacon of the Cathedral Church, being thirty years old, was sick of a double Tertian, whose fits were very grievous and long lasting, attended with great unquietness, with extream pain of the Head, continuing after the fits were past, and very red Urines. After he had been let blood twice, and had taken a gentle purge, he took an hour before his fit the Potion of half a dram of Salt of Wormwood, one scruple of Spirit of Sulphur, and three ounces of Cichory Water. At the same time Strobelberger his Plaister was laid to his Wrists, and the fit came not then, nor ever after, although red Urines and other signs did shew the Disease to be then in its vigor. The daies following the morbidick matter was voided by a light looseness. His Head-ach was most of all holpen by a new Gourd bruised and applied as a Pultis to the soles of his Feet, and frequently repeated.

Observ. 26. *Vomiting of Blood caused by an Horse-leech swallowed in the Patients Drink.*

617. A Countryman was troubled with vomiting of blood, which could not be stopped by any Remedies used many daies together. The Physitian desiring by a vomit to bring away the blood collected in his stomach, which did much afflict the Patient, much caused a great oppression in that part; he prescribed two ounces of Oyl of sweet Almonds, which caused him to vomit, and he voided clotted blood, and an Horse-leech withal, which moved upon the ground. This was the unknown and seldome seen cause of the vomiting of Blood. For the Countryman afterwards related how he drunk Water in a Brook, and swallowed a Horse-leech in the Water.

Observ. 27. *A long flux of the Belly with a slow Fever.*

618. The Daughter of M^r. de la Coste of *Piscenum*, being eight years old, was troubled three moneths with a cholerick looseness, with a continual lingring Fever, so that she

seemed to be in great danger of her life; because her brother at the same age died of the like disease. Being sent for to her I prescribed these following Remedies.

Take Leaves of Plantane half a handful: Tamarinds three drams: boyl them to four ounces. In the strained Liquor infuse one dram of choise Rhubarb, yellow Sanders one scruple: strain it again, and add Syrup of Roman Wormwood half an ounce: Powder of Rhubarb one scruple; Make a Potion, and let her drink it in the morning, and be ordered at for a Purge.

Take Tincture of Coral new made with juyce of Lemons one pound: Let her take one ounce and half in the morning with a little Sugar of Roses for eight daies together.

After her Tincture of Coral is done let her take the foresaid Purging Potion again.

Take Roots of Grass, Asparagus, Butchers Broom, and the middle Rind of the Tamarisk, of each half an ounce: Leaves of Agrimony, Pimpernel, Ceterach, Maidenhair, of each half a handful, Shavings of Ivory, and yellow Sanders, of each one dram. Boyl them to nine ounces. To the strained Liquor add Syrup of Maiden hair one ounce and half. Make of all a Julep for three morning doses, added to every dose, Salt of Wormwood, and Tamarisk, of each ten grains. And when she hath taken this, repeat the same for as many doses more. Let her use for her ordinary Drink, Water wherein Steel hath been infused, and Rhubarb tied in a nodule.

Take Oyl of Capars, and Tamarisk of each two ounces. Anoint all her Belly therewith hot, morning and evening.

Take Oyl of Nutmegs half an ounce: Balsom of Peru two drams, mix them. Anoint her stomach therewith hot, at the times aforesaid.

Take Shavings of Ivory and Pearls prepared, of each two drams: Salt of Wormwood, and Tamarisk, of each one dram: make all into a Powder. Let her take ten grains thereof in all her Broths and Panada's.

With these Remedies she grew well in the space of a moneth. And falling into the same Disease a year after, she was freed by taking the same Remedies again, and from that time she hath been very well in health.

Observ. 28. *The Coma or sleepy Disease of Children.*

619. On the 18. day of the moneth of September. 1647. the Son of M^r. du Cros, Auditor in the Court of Accompts, being five years old, fat and gross, fell suddenly into a sleepy Disease, which was sometimes followed with Convul-

Convulsion. Being called, I presently prescribed a Clyster of Hiera, Diaphenicon and Aqua Benedicta, whereby he was well purged. Having voided his Clyster, I gave him half a dram of Salt of Vitriol, and provoking him to vomit with a Feather, he voided much flegm, and was freed a few hours after.

Observ. 29. *An old Venereal Disease.*

620. A man forty years of age came to us from upper *Occitania* to be cured of the Venereal Disease, wherewith he had been troubled for twelve years. He had three remarkable knobs in his Head for many years, and a schirrhous Tumor in his left Testicle as big as a Fist. He had been sundry times tempered with, by sweating, Diet-drinks and Mercurial Medicaments, but all in vain. In the beginning of the moneth of *October*, 1647. he used for twenty daies together a primary decoction of Sarsa and China, and a secondary Decoction without sweat; and every fifth day he took Anti-Venereal Pills. Afterwards for fifteen daies he took the Decoction for an old *Lues Venerea*, made of China, Sarsaperilla, peelings of Nuts, and Antimony. In that space of time the knobs in his Head were disscussed by a Vesicatory Emplaster; and the Tumor of his Stone, with a fume of Vinegar and Plaister of Sulphur.

Observ. 30. *A Quartane Ague.*

621. The Wife of M^r. *le Thaneur* a Writing School-Master, thirty years of age being troubled with a double-Quartan Ague for three moneths; she took on her well day, which was *Decemb* 15. 1647. twenty grains of my Fever-chaser; was thrice gently purged, and the following Fits were like the former. On the other day of intermission she took twenty five grains of my said Medicament, and no sensible effect appeared, and no evacuation followed, and after that very small Fits, and in a manner none appeared, and a little while after she was quite well.

Observ. 31. *Pain of the Teeth.*

622. On the 30th of *December*, 1647. I was troubled with a grievous Tooth-ach, which growing intolerable about midnight, I took a bit of Tobacco in my mouth, and gently chewed the same a long time together, till it caused me to vomit; whereby I cast up all my Supper, and therewith much flegm, and the pain vanished within two hours.

Observ. 32. *A Dropsie.*

623. The most Illustrious Arch-Bishop of *Abredunum*, being eighty five years old and troubled with the Dropsie Ascites, sent for me about the middle of *April*, 1648. Besides a notable great Belly and swollen Legs, he was troubled with two grievous Symptoms, viz. unquenchable thirst, and shortness of breath, attended with nightly disquiets. He was frequently purged with *Mercurius Vita* corrected with Spirit of Salt, whereby the Wheyish Humors were evacuated, and the shortness of breath taken away; his thirst was cured with Spirit of Salt, twenty drops whereof he took in the morning in Broth, and in the evening in some potable Water. All the Symptoms ceased, and his Belly asswaged; but because through his age and the weakness of his Bowels, a new Recruit of water was by little and little collected; to hinder a relapse he was purged twice a month with the Remedy aforesaid, and he took daily Lozenges of Confectio Alkermes with *Bezoardicum Minereal*. Thus he lived three years after with lesser inconvenience, and without return of the Dropsie; till at last his forces failing, he died in a manner without any visible Disease.

Observ. 33. *A Double Tertian Ague.*

624. On the 15. of *September* in the year 1648. I was called to the most Illustrious Bishop of *Agathen*, being sick of a Tertian Ague. Now the Ague was simple at first for eight fits, and soon after it was turned into a double Tertian, and he had four fits ere I came to him. He had been twice let blood, and a purging Medicament was twice given him; he did sweat very much, so that he could hardly sleep half an hour but he was fain to change his Linnen. His Urines appeared red and crude, so that there was fear of a long Disease. On the sixteenth day, an hour before the fit, I gave him a decoction of Chamomel and Crystal of Tartar, and caused him withal to be let blood, the quantity of eight ounces, and that day his fit came not. On the eighteenth I gave him three grains of *Mercurius Vita* corrected, which gently purged him: nevertheless the fit of a single Tertian, which had also shewed it self on the seventeenth day, returned upon the nineteenth. On the twentieth day blood-letting was iterated, the Urines still appearing red. On the twenty one before the fit, was given *Crollius* his Ague Medicament, and yet that fit was like the former. On the twenty second day, which was free from a fit, there was given him

him a Bolus of half an ounce of Cassia, Jalap half a dram, and ten grains of my Ague-Chaser: he purged plentifully by stool, and once by Vomit. The fit did not return the following day. On the twenty fourth day there was given an Infusion of Senna with Salt of Tartar and Spirit of Sulphur, whereby many cholerick and flegmatick Excrements were voided. The following day also the fit did not return, so that the day after I departed. But I warned that there was danger of a Relapse, because the Urine seemed but little concocted. And therefore I ordered them to repeat the Infusion of Senna for three daies, either one after another, or every other day, that all the remainders of the Disease might be expelled. The same day wherein I departed, the fit returned and continued three daies. But afterwards using opening Broths, which I had prescribed before my departure, he grew perfectly well.

Observ. 34. *Aneurisma.*

625. M^r. Pelet, a Citizen of Montpelier, fifty yeers of age, being of a black cholerick temperament, and vexed with most grievous Cares; after many Symptoms arguing Hypochondriacal melancholy, he had a Tumor under his right Channel bone as big as an Egg, soft and of the colour of the rest of the Skin, wherein a remarkable pulsation appeared. It was judged to be an incurable Aneurism. When he was dead, the great Artery ascending from the Heart to the Clavicle, was found so distended, that it was almost as big as a mans Arm, and could easily admit a Pullets Egg into the Cavity thereof. Moreover, its coat was become very thick and gristly; which notes the wonderful providence of Nature, who endeavouring to shun the rupture of the very much dilated Coat, had made the same thicker and harder. So I once saw a Kidney filled with twenty two Stones, grown four times as big as the other Kidney, as if Nature desired to amplify the same, that it might with less trouble contain the said Stones.

Observ. 35. *A Quartan Ague.*

626. John Verchand a Perfumer, having been long troubled with a Quartan Ague, which after many Medicaments would not go away, he mixed in a draught of his ordinary Ptisan a mixture of Amber-greece and Musk which he had prepared to make musked Plums, Sugar being added; in which there were eight grains of each. And in the hot fit he took the Ptisan at three doses, every time agitating the Vessel, lest the Powder

should lie at the bottom: whereupon he did sweat plentifully sweats smelling of Musk, and so he was perfectly cured.

Observ. 36. *A Malignant Tertian.*

627. A noble Matron the Wife of M^r. de Sumenes, being sick of a double Tertian, in her fits was troubled with grievous faintings, so that the by-standers were afraid lest she should go away in those fits, which argued the intense malignity of the Disease. Being called to her, I gave her twice a day in a Cordial Julep *Bezoardicum Joviale* eight grains; and *Bezoardicum Minerale* one scruple in every Broth she took. Within two daies the fainting fits went quite away, and the fits were passed over without any grievous Symptom, and in a few daies with ordinary Remedies the Patient was quite cured of her Disease.

Observ. 37. *A Dropsie in a Child.*

628. The Son of William Pelhose, a Citizen of Montpelier, two years old, had been four moneths troubled with a Dropsie *Ascites*, to whom I prescribed these following Medicaments.

Take Rhubarb powdered one dram. Let him take it in the morning with Broth once a week.

Take Roots of Asparagus, Bruscus, and E-nula Campana, of each one ounce: Leaves of Agrimony, Cichory, Finger-Fern, Maiden-hair, Germander, Centaury the less, and the two Wormwoods, of each one handful. Boyl them to a pint. In the strained Liquor dissolve one pound of Sugar. Make all into a Syrup perfectly boyled: Whereof let him take one ounce every other morning an hour before and after he hath suckd.

Take Lozenges of Diatrion-Santalum with a double quantity of Rhubarb two ounces. Let him take one dram in the morning on the daies he does not take the Syrup.

Take Rhubarb pondered and tied in a nodule, one scruple. Fountain Water one pint and half. Steep them together cold, and give him the Liquor for his ordinary drink.

Take Raisins stoned three pound. Let them boyl to Pap in white Wine; then draw them through a searse, and afterwards boyl them again to the consistence of an Opiate: Let him eat thereof at all times by it self, or with bread at his pleasure.

These Remedies being continued two moneths together, he became perfectly well.

Observ. 38. *A Falling Sicknefs.*

629. A Girl twelve years old was frequently taken with the Falling-Sicknefs; for the Cure whereof many Remedies were tried in vain. But being taken with a Pleurisie she was divers times let Blood, and from that time forward was never troubled with the Falling-Sicknefs. Whence we may collect, that Blood-letting does much contribute to the Cure of the Falling-Sicknefs.

Observ. 39. *A Malignant Feaver.*

630. The most Illustrious Bishop of Uzès, being sick of a most Malignant Feaver, which was twisted of a continual Feaver and an Ague, drawing neer to the Nature of a Semitertian. On the eleventh day of the Disease he had so grievous a Fit, that we were very much afraid of his life. The Symptoms growing worse and worse, two or three hours after the beginning of the Fit, I gave him of my Treacle Water made of Juyce of Lemmons and other things described in my Treaties of Feavers, in the Chapter of a Malignant Feaver, one ounce and half with three ounces of Carduus Benedictus Water. And in a quarter of an hour all the Symptomes ceased, the Patient fell asleep, and being awakened out of his sleep after three hours, he was freed from his Feaver, which returned no more.

Observ. 40. *A Tertian Ague.*

631. The elder Son of M^r. de Boirargues having been troubled with a double Tertian twenty daies, took an hour before his Fit one ounce of our Treacle Water, with two ounces of Carduus Water, and the Fit appeared no more.

Observ. 41. *A Quartan Ague, Scab, and Consumption.*

632. Raymundus Michel, a Citizen of Frontinia, being sixty six years old, and troubled with a Quartan Ague, after many Remedies was at last cured in the middle of Winter, having taken sixteen daies together *Mercurius Diaphoreticus* the quantity of six grains, whereof he felt no sensible operation, but the Fits were dayly abated, so that in a manner they vanished quite away: but it was perfectly cured by a small Dose of my Ague-chaser. But he remained extream lean, which had almost brought him to a Marasmus, with a very itching dry Scab which possessed his whole Body. I prescribed the use of Asses Milk for forty daies, and an entire Bath for

three daies, and a Bath to sit in for twenty daies, and to be anointed after the same, with an Oyntment proper for the Itch, and so he was perfectly cured.

Observ. 42. *A Rheumatismus.*

633. Ludovicus Michel of Frontinia, twenty five years old in the moneth of September, 1649. fell into a Rheumatism, whereby all the Joynts of her Body in a manner were vexed with grievous pains, and those wandering, so that sometimes they seized upon one part, anon upon another. Now although this Disease is wont to be for the most part Chronical, and to last many moneths; yet it was taken away in the space of fifteen daies, the Patient being seven times let blood at the beginning, and red Poppy Water being given morning and evening. And when the pain abated, he was thrice purged with Pulvis Arthriticus every other day.

Observ. 43. *A Phthisis.*

634. A Phthisical Damosel being reduced to an extream leanness, by the Councel of her Physitian lived only with Raisins which she did eat with bread, and for Drink she used a Decoction of Barley and Liquoris, and so within eight moneths she was restored, and very well fattened.

Observ. 44. *A Dropsie.*

635. A Girl eight years old being sick of a Dropsie used Conserve of Raisins in all her Diet, and within two moneths she was cured. Now this Conserve was made of Raisins boyled in white Wine unto a Pap, and forced through a Searse, and boyled again to the consistency of an Opiate.

Observ. 45. *Suppression of Urine.*

636. A certain man being troubled with suppression of Urine two daies, was cured by this Method. He took every day a laxative Ptisan made in a Decoction of Pellitory, whereby wheyish humors were attracted, so that they could not flow into the Bladder. Also he frequently used a Bath to sit in. After four Purgations, he took about the evening Oyl of Scorpions of *Matthiolum* one dram or two, with the same Decoction. This also is worthy of observation, That after he was cured, his whole Face was covered over with a crust, which in the space of fifteen daies dried and fell away. Whence we might conjecture

jecture that a certain virulent matter which lay hid in the Body, was driven out into his Face by the Oyl of Scorpious. And peradventure this Oyl would much help those that are troubled with the Elephantiasis.

Observ. 46. *A Vomiting of kin to the Disease Cholera.*

637. A certain Woman being troubled with a nightly vomiting resembling the Disease Cholera was cured in a moment, by drinking a draught of Water, made very tart with Spirit of Vitriol.

Observ. 47. *A Fainting and other Symptoms of the Womb.*

638. Another Woman being troubled with grievous Symptoms from her Womb, was cured by the same Spirit mixed with Water.

Observ. 48. *A Bastard Dropsie.*

639. A certain man had his Belly very much swollen, so that all men took him to be Hydropical; at last after he had taken a Medicament he voided seven Bladders long and round like Pudings, and as thick, of an hands breadth, which were full of a stinking Humor; and upon the voidance of these he was perfectly cured.

Observ. 39. *A Cholerick Chollick.*

640. An Apothecary of Clermont, who was called Michael, being about forty years old, told me, that having been many years vexed with Cholick pains, he could find no other Remedy but to drink Water, and so long as he continued the use thereof he was free: but as soon as he returned to the use of Wine, within two daies he was taken with his Cholick. And he desiring to know of me the cause hereof; I answered, that this Cholick was not raised simply from Choler, but for the most part from Melancholy mixed with the Choler, since his predominant temperament was Melancholick. And since Melancholy is continually shed from the Spleen into the Stomach, by its tartness it infects the Wine so as to make it grow sour upon the Stomach, and augment the cause of the Disease. But if a Cholerick Humor should be the Cause of the Disease, it would be indeed holpen by drinking of Water, but the use of Wine would not so soon bring the disease, because Wine does not so readily put on the qualities of Choler as of Melancholy, because it sooner grows sour than bitter. It

strengthenens my conjecture because the foresaid Apothecary when he had his Cholick Fits did vomit four Humors, but not bitter.

Observ. 50. *A Gangreen.*

641. A certain very poor Woman by reason of a considerable Fracture in her Leg with a grievous Ulcer, fell into a Gangreen which compassed the whole Wound, and daily increased, and infected the neighbouring parts. A Chyrurgeon by my advice Fomented the Part continually for two daies with Vinegar in which the drops of Iron had been boyled, and the Gangreen was stopped, and laudable Quittor began to come out of the Wound; and it was afterward cured by the ordinary Method.

Observ. 51. *A Pain in the Knee proceeding from a Bruise.*

642. John Cavalier my Servant, about noon caught a blow on his Knee with a wooden Ball. He walked without pain till four a clock in the evening, at which time the Pain possessing the whole Knee was so grievous that he could not walk at all. Presently I caused the part to be smeared with equal portions of Oyl of Wax, and Spirit of Wine, hot Linnen Cloths being laid thereon. At bed-time he was anointed again, and again the next morning, and within twenty four hours he was well.

Observ. 52. *A stubborn and long lasting Tumor in the Knee.*

643. M^r. Monts, the King's Letter-Carrier, for three moneths together had so stubborn a swelling in his Knee, that he could not by any means be rid thereof: It was many times soft, as if it would suppurate, and the Chirurgeons would have opened it but that I would not give way. After many Remedies this following Plaister did much good.

Take Plaister Diapalma one ounce; Mercury crude kill'd with Sulphur and Roman Vitriol, of each two drams: Turpentine a little. Let all be made in a Plaister.

The Tumor yet continued, though very much abated; and finally, this following Plaister perfected the Cure.

Take Gum Ammoniack, and Sapagenum dissolved in Vinegar, and then thickened again, of each two ounces: Diachylon with Gums one ounce and half. Melt all together, then add Cinnabar and burnt Brass, of each one ounce: Orpment and Verdigrise, of each two drams. Make all into a Mass.

Observ.

Observ. 53. *The Disease Cholera.*

644. *Petrus Mantel* a Merchant of *Montpelier*, Seventy years old, being taken with a grievous *Cholera*, (that is, Vomiting and scouring,) with four Remedies chiefly he was in eight dayes cured, *Viz.* A Clyster of Milk, *Confectio de Hyacintho*, Conserve of Roses, and Yelks of Eggs; an astringent Fomentation of his Stomach, and strengthening, with Bags steeped in red Wine; a Julep of a Decoction of Plantane and Purslane, with Syrup of Quinzes, and *Confectio de Hyacintho* given morning and evening, and one grain of Laudanum every night dissolved in his Julep. This Cure was counted a Miracle in so old a person.

Observ. 54. *A Malignant Feaver.*

645. The ninth of *August*, 1650. I was called to the Baths to *Mfr. Guerinus* a Merchant of *Lions*, who was sick there. It was the fifteenth day of the Disease, and he was held with a continual raving, and perpetual contractions of the Nerves, and starting of his Members; moreover he refused all Broths, and other Drinks, and he spit out whatever was put into his mouth by Spoon. At first I forced him to swallow his Broths by stopping his Nose, and holding the Spoon long in his mouth. Afterwards I gave him twenty grains of *Bezoardicum Foviale* twice a day, and in all his Broths one scruple of *Bezoardicum Minerale* for two daies together with Juleps, Alexipharmicks, Epithems, and other vulgar Remedies. Also Vesicatories were applied to his Neck and Wrists, and within three daies he was freed from his Feaver and all its Symptoms.

Observ. 55. *A Malignant Feaver.*

646. On the 14. of *August*, in the year 1650. *Mfr. d' Almeras*, Captain of a Man of War, for seven daies had been troubled with a continual Malignant Feaver, with so great weakness, that he could not stir himself in his Bed, or turn himself from one side to another; All ordinary Remedies were used to no purpose, no not Bezoar Stone, which he said a Spanish Gentleman had brought from the *Indies* and given him. At last, on the twelfth day of the Disease when all grew worse and worse, and I saw the Patient (of whom I was exceeding tender) in danger of his Life; I gave him at nine a Clock in the evening four ounces of my Treacle Water made with juyce of Lemmons. At eleven a clock I gave him in Broth *Bezoardicum Foviale* twelve

grains, and in the morning at four a clock he took the said Bezoartick again. The Effect of these Remedies was such, that the Faintings which had formerly troubled him, did trouble him no more: yea, and whereas before having a looseness which did much weaken him as oft as he went to stool, that night nevertheless he had a plentiful stool, and became thereby the stronger. Also three hours after he had taken the Water and Pouder, he turned himself of his own accord upon his side and lay thereupon, whereas for many daies before he had lain upon his back immovable. In the morning his Urines appeared better digested, and from that time he continually amended, and in a short space was freed from his Feaver perfectly.

Observ. 56. *A Malignant Feaver.*

647. On the third day of *September*, the year 1650. I was called to a Town named *Aiguemortes*, to see the renowned Lady *de Guy*, sixty years of age, troubled with a Malignant Feaver, being somewhat of the Nature of a Semitercian. For the Fits returned every day, which did not terminate in a perfect freedom from heat, and there came with the Fits a coldness of the whole Body, which lasted twelve or fifteen hours, with an exceeding Languishment of the forces of her Body. Moreover she was exceedingly weakened by a plentiful and continual looseness, whereby very crude humors of a gray colour were voided. And this flux was of kin to a Lientery; for so often as she took Broth or drunk, she presently voided it by Stool, but four times as much in quantity. I came on the ninth day of the Disease, and I used ordinary Remedies carefully and continually for two daies together, such as are wont to be prescribed for a Malignant Feaver, Loosness, and to strengthen Nature. And when they would do no good, and the Patient grew worse and worse, so that on the seventh day she seemed near to death, and as it were in the Agony thereof; I thought to have recourse to *Bezoardicum Foviale*, as a rare Antidote and powerfull Diaphoretick, and I gave her twelve grains thereof. From that time she had no more Stools, her cold Fits did not return, and within two daies she lost her Feaver, and in a while after was perfectly well.

Observ. 57. *A Fit in a Womens Dug.*

648. This is a rare Case. A Noble Matron, fifty one years of Age, being of a Choleric and Melancholick Temperament, ten years before had been taken with a sudden

fright through the sudden death of her child killed by the Nurses heedlessness. Hence her Courses were wholly stopped, nor had she them ever after. After two years there arose in the upper part of her left Dug, a Tumor somewhat hard and long, round as thick as a finger. A little afterwards there appeared in the lower part of her said Dug another little round Tumor, which within four daies made a small pit in the same part without pain, which pit grew by little and little, so that within two years it drew in about half the Dug, and in the bottom thereof the skin might be perceived to stick unto the Ribs. But in the compass of the said bottom a certain hardness was perceived, which being compressed with the fingers did introduce a sense of pain. Sometimes the Patient felt a pricking pain, in all that part, but small and seldom happening. Moreover, she had an intense heat in the Region of her Liver, and the right side of her Chest.

A Consultation being had, this Malady was thought to approach unto the Nature of a secret Cancer. For since there is a very great variety in the Nature of the Melancholick and black Cholerick Humor, it happens that from those Humors sundry sorts of the same Disease do arise. Commonly the Melancholick adust Humor causing a Cancer is thick, and produces an hard Tumor, which at last gaining putrefaction and acrimony exulcerates the Parts, and produces an incurable Ulcer. But in this Case the Humor is thin, and therefore it makes a very small Tumor; and moreover, that same Humor hath a certain Malignant and melting quality, whereby it dissolves and consumes the substance of the part; as we see some Salts furnished with a corrosive and ulcerating faculty, such as those are whereof Potential Cauteries are made; and some can dissolve the hardest Bodies, of which are made Aqua-Fortis, Aqua Regia, and such like Liquors as can dissolve Metals and Stones; yea, Vinegar dissolves Stones, and yet does not fret the Skin. So in the Microcosm are generated Salts of like Faculties, which being mixt with the Humors, do produce wonderful effects. So in this Case, the Humor which is naturally expelled into the Dug, as into a soft and spongy part, does by degrees melt and consume the substance thereof; so that the aforesaid Pit grows every day bigger and bigger. This Disease was judged incurable, and that only a Palliative Cure was to be thereto applied, and that it was to be feared lest at last the part should be ulcerated, a greater acrimony being introduced. The Remedies prescribed were alterers, evacuators, revellers, roborators, viz. Periodical

Purgations and Blood-lettings, altering Broths, Whey, Mineral Waters, Causticks, Specifick Opiates, and such like. Also Topicks to lenefie and moisten the fierceness of the Humor, as a Liniment of Oyl of Roses, Juycce of Plantane, and Nightshade with crude Mercury; the Oyntment of green Frogs described by *Chalmithens*, in his Chapter of the Cancer: a Liniment of Butter and Oyl of Violets with Salt of Lead, a Fomentation with Rose-Water and Salt of Lead.

Observ. 58. *Pain in the Hemorrhoids.*

646. A man threescore years of age, of a Melancholick and Arrabiliary temper, was vexed with a troublesome pain of the Hemorrhoids, with a Tumor and Inflammation of the part, which would not give way to many Remedies. I prescribed him a Fomentation of Rose-Water, in six ounces whereof a drams of Salt of Lead was dissolved; which Fomentation was reiterated divers times in a day. But afterwards a Cataplasim was applied, of a white Onion roasted under the embers, and mingled with Butter in an equal quantity. Within two daies the Inflammation was asswaged, and the Tumor for the most part dissolved.

Observ. 59. *Convulsion in a Child.*

650. The 27. of October, 1650. when I was at Nemours, tending upon another Patient, the Son of M^r. Marguerite, Counsellor in the Præsidential Court of Nemours, ten years of age, was taken with Epileptick Convulsions most dreadful, so that all the parts of his Body were cruelly shaken, and the fits returned ever and anon, and there was well near no intermission. In so great a danger and so importunate a Disease, I gave him half a dram of Salt of Vitriol dissolved in Betony-Water whereby vomiting was presently raised, and the Patient voided much flegm, and presently the Convulsions were stopped. Yet after some hours they returned, but much shorter and lighter, and therefore a Purgation was given him of Diacarthammum half an ounce; Syrup of Roses one ounce, with Betony-Water; and this was given about the evening, because in the morning he had his Fits. He was purged well in the night. Afterwards there was given to him Oyl of Amber and Spirit of Vitriol, of each five drops in Water of Betony. His fits were more light, but the night following they were somewhat more frequent. The next day in the morning we gave him a Portion of Carduus Water one ounce, and as much Scordium Water, Treacle Water of Bauderon.

Bauderon one ounce; Salt of Carduus one scruple; Confectio Alkermes one dram: By help whereof all Convulsions were taken away. But lest they should come again, *Bezoardicum Foviale* was twice given him the quantity of twelve grains in eight hours time, and so he was quite cured. We gave him the Alexipharmical Potion, and the *Bezoardicum Foviale*, because there was great suspicion of malignity in the Disease; because the Boy had fifteen daies before been troubled with a Quinzy, which Disease was at that time Epidemical at *Nemours*, especially afflicting the Children, whereof some also died. Whence we may conjecture that the malignity remaining after that Disease in the Boys body, during the time aforesaid, was suddenly awakened; and raised those Convulsions.

Observ. 60. *The Quinzie.*

651. On the 27. of October, 1650. M^r. Cheilon, an Advocate at *Nemours*, thirty years of Age, was troubled with a grievous Quinzy for five daies, which took away his swallowing quite and clean; so that he could not take a drop of broth, and for twenty four hours he had taken nothing, besides Water, which did more easily pass. I had presently gave him two ounces of *Aqua Benedicta*, in the operation whereof, the Imposthume which did lurk in his Throat and stopt the whole Orifice of his Gullet, was broken, the Patient voided much Quittor with flegm and a little blood. but afterwards he took broth without much trouble, and after a few other Remedies, grew presently well.

Observ. 61. *A Double Tertian.*

652. On the 29. of November, 1650. while I was at *Nemours*, I was called to M^r. de Mirabel sojourning with M^r. Barnier the Kings Councillor, who was troubled with a double Tertian Ague for fifteen daies, in which space of time he was twice let blood, and as many Purgations were given him, and many and opening and cooling Juleps. Nevertheless the Feaver continued, the Fits came sooner, the Urines were crude and reddish, also the Patient was troubled with Nocturnal sweats: all which threatned a long Disease, so that it was to be feared it might degenerate into a Quartan. I therefore setting upon the Cure, to remove the internal Inflammation, which was apparent from the redness of the Urines, and the great heat of the Fits, I let him bleed again, and his blood appearing very much burnt and corrupt, I thought good to cause him to bleed the day

after also. Afterwards to clarify and temper his Blood, I prescribed Juleps of temperate opening Roots, with Cichories and Capillary Plants to be continued for three daies together. After which followed the Portion of Senna, Tamarinds, Manna, and Syrup of Roses, whereby he was sufficiently purged. Yet the Fits continued as strong as before. I gave him therefore twenty grains of my *Ague-Chaser*; whereby he was seven times purged, only downwards, and that so gently that he would every where profess; that he never took a gentler Medicament. Now he took it at three a clock in the morning, the Fit being expected at one of the clock after Dinner, which was kept back till four in the Afternoon, and was much lighter than before. The following day the Fit returned the same hour, and was like the former. I gave again my *Feaver-Chaser* in the same Dose, and he was purged after the same manner, not did his Fit come any more. The day after the Medicaments he bled a pint of Blood at the Nose, and was not weakened thereby. And this I have sometime observed in my *Feaver-Chaser*, That as it endeavors to expel whatever is burdensome to Nature, it also expels superfluous Blood by bleeding at the Nose; which happened in his Gentleman who was young and sanguine, so that superfluous Blood was in him still redundant, though he had been four times let Blood. Thus he was perfectly cured, and reduced to his former health.

Observ. 62. *A Quartan Ague.*

653. A Dominican Friar named *Austin*, was troubled with a Quartan-Ague a year together, which was followed by a black Jaundice. He had used many Remedies against this Disease, according to the prescript of sundry Physicians, but all in vain. For he was of a very Melancholick Temperament and adust: Moreover, his left Hypochondry was hard and resisted the touch. I ordered him to be let Blood, to take opening and Melancholy purging Apozemes for four daies, with opening and emollient Fomentations to be applied to his Hypochondries. Afterwards I gave him twenty grains of my *Feaver-Chaser*, yet the Ague remained unshaken. After two Fits I gave twenty five grains more, and the Fits were abated. After two Fits more I gave thirty grains, and that same rebellious Feaver was quite chased away.

Observ.

Observ. 63. *A Felon or Whitlow.*

654. In the beginning of the moneth of March, 1651. the eldest Daughter of the Baron of Aumelaz, General Treasurer of France, had a Felon on the fore-Finger of her left Hand, which had greivously tormented her for the space of four daies, so that she slept not all night, with extream pain. I caused her to put her Finger into the Cats Ear, and within two hours she was void of all pain. She felt her Finger drawn by Fits into the Cavity of the Ear, and ever and anon the pain seized upon her whole Arm, as far as to her Shoulder, and at that time the Cat cried aloud, so that it is probable that she was affected by the Venom drawn in. For a Felon is a venomous Tumor. All her hand was swelled, and then the swelling went away save on her Finger, which remained swollen, but void of Pain. Her finger being taken out, appeared suppurated, and was afterwards cured only by the Plaster Diapalma.

Observ. 64. *Immoderate flux of the Hemorrhoids.*

655. In the moneth of April, 1651. a noble Matron, Wife of M^r. Riniac, Proctor General in the Court of Accounts, Subsidies, and the Kings Exchequer, being forty years old, had an immoderate Flux of the Hemorrhoids, of which she could not be cured by all the Remedies prescribed by two Physicians one after another for eight moneths time; so that she was brought into an extream Cachexia threatening a Dropsie, with extream weakness, so that she could hardly stir, and a yellow Jaundicing color of her Face and whole Body. She could no longer away with Remedies, and by Purgatives which she took by advice of the Physicians aforesaid although gentle, her Flux was irritated. In this desperation she came to me, and implored my assistance. And I presently prescribed her the following Potion to be used four daies one after another.

Take Tamarinds half an ounce: Leaves of Plantane one handful: Citrine Myrobalans one dram. Boyl them to six ounces. In the strained Liquor infuse choyce Rhubarb one dram: Spickard ten grains. After expression dissolve therein Syrup of Roses one ounce: Powder of Rhubarb one scruple. Make all into a Potion.

After the first taking of this Potion the Flux of Blood was stopped, although she went five times to Stool; and in the other doses the same event followed.

Afterwards I prescribed Juleps of a Decoction of Cinqueloyl Roots and Tormentil, Leaves of Plantane, Pimpernel, and Yarrow, with Sal Prunellæ and Syrup of Pomegranates for twelve daies together, iterating the Purgation every fifth day: and all that time the flux of Hemorrhoids never appeared.

And because the Disease was rebellious and very long lasting, which being once stopped would after a time return again: after the foresaid Remedies I prescribed Salt of Iron to be taken for many daies from six to eight grains, and the giving of the foresaid Potion every fifth day.

Through the use of these Medicaments the flux of Hemorrhoids did not appear for five weeks, which being gone there returned a very troublesome Flux; for she voided abundance of very pure Blood as often as she went to Stool. Being sent for the next day, I prescribed again a purging Potion; after which she had two or three Stools without any voidance of Blood.

The day after the Purge I prescribed her a Bath of Barley, Plantane, Knotgrass, tops of Brambles, and red Roses, to be used two daies.

Afterwards the same Remedies were iterated for an whole moneth together; and daily the Patient got strength, and the Lively colour of her Face was restored, till at last she gained perfect Health. Yet about the end of the foresaid moneth she felt an heat in her Hypochondries, and disquietness about the time of sleeping. It was easie to conceive that this proceeded from Retention of Blood which did formerly go away by the Hemorrhoids, and which Nature could not well govern, being accustomed to the former evacuations, especially since her Courses had been stopped some years: wherefore I ordered her to bleed in her Arm, by help whereof the foresaid Symptoms were taken away.

Observ. 65. *A Contusion, Inflammation, and Excoriation of the Buttocks by long lying upon the Part.*

656. The Wife of M^r. de Brissac, being sick of a continual Feaver, with a very troublesome Catarrh falling down upon the Lungs; whereupon she had continually a Cough, which did vehemently trouble her, especially when she lay down, so that she was forced to sit day and night in Bed. And being exceeding lean, the ends of her Buttocks coming neer her Fundament, by continual compression were bruised, and had the skin fretted off; after which followed an Inflammation with an obscure redness enclining

clining to black and blue. After some Oyn-
ments and Plaisters some daies used in vain
by a Chyrurgeon experimented, I was made
acquainted with the case. I caused the part
to be fomented with Rose-Water wherein Su-
gar of Lead was dissolved, and in twenty four
hours the Malady was cured.

Observ. 65. *A Malignant Fever.*

957. In the moneth of July, 1651. M^r.
de Deletre Farmer of the Salt-Pits, fell into a
Malignant Fever, which brought him to Con-
vulsions and Ravings, with extream inequality
of Pulse, so that it seemed he would shortly
die. Of sundry things that were given him,
my Treacle Water described in my Cure of a
Pestilential Fever did him most good, being
given the quantity of four ounces with twelve
grains of *Bezoardicum Foviale*. Whereby plen-
tiful sweat was caused, and the Patient freed as
by a miracle.

Observ. 67. *A monstrous Scituation of the
Stomach.*

658. The Son of M^r. *Rat*, a Citizen of
Montpelier, twenty four years old, by temper
melancholick, was troubled well-near all the
Summer with a long lasting Tertian Ague,
sometimes simple, other whiles double, all the
Summer in a manner. But in the moneth of
September, although he was freed from his Fits,
yet was he not perfectly well, and took Anti-
monium from an Emperick, which perhaps
was ill prepared, whereby he was exceedingly
moved to vomit, but brought up nothing. So
that the said continual straining to no purpose
tormenting him, in seven or eight hours time
it did bring him to deaths door, and towards
evening took him away. His body being o-
pened his Stomach was found in the right
part of his Chest full of sundry Humors; which
preternatural Scituation was doubtless the
cause that it could not sufficiently dilate, nor
turn it self so as to vomit, being oppressed by
the circumference of the Ribs. Now that this
Scituation was from the first original in the
Womb, appeared by the absence of the Lungs
in that part of the Chest, because there was
only one Lobe or Lap thereof in the left side.
It is strange that this young man was not all
his life time very much oppressed with short-
ness of breath, and that he conveniently ex-
ercised all the Functions of his Body before
the Disease aforesaid; for he had been a Sol-
dier and contracted the foresaid Feavers in the
Wars.

Observ. 68. *A Dropsie.*

659. A Child two years old, sick of a
Dropsie, was perfectly cured in two moneths
time, by these following Remedies.

Take *Rhubarb* powdered one dram. Let him
take it in the morning with Broth.

Take Roots of *Asparagus*, *Butchers Broom*,
Elicampagne, of each one ounce: Leaves of *A-*
grimony, *Cichory*, *Finger-Fern*, *Maidenhair*,
Germander, *Centaury*, the two *Wormwoods*, of
each one handful: Boyl them to a pint. Make
thereof with Sugar a Syrup perfectly boyled.
Let him take one ounce every other day an
hour before he sucks.

Take Lozenges of *Trionsantalon* with a four-
fold quantity of *Rhubarb* four ounces. Let him
take one dram every other day when he does
not take the Syrup.

Take Choice *Rhubarb* tied up in a Nodule,
one scruple: Spring Water one point and a half.
Infuse them cold, and let him use the Liquor
for his ordinary Drink.

Observ. 69. *A Bloody Flux.*

660. M^r. *Roufier*, a Doctor of Physick,
and Physitian at *Utica*, forty years of age, for
four moneths had a Cholerick Loosness, with
flegm and blood, whereby he voided more
Blood than other Humors, so that he was
made extream lean and almost consumed.
Having all that time used many Remedies in
vain; at last he calls me to advise with; and
I gave him twelve grains of Horizontal Gold
whereby he was gently purged, and voided
store of leek-coloured and rusty Choler with-
out any Blood. I caused the same Remedy
to be twice repeated every third day, and the
same operation followed. Afterwards he was
quite freed of his Loosness, and using nou-
rishing Meats of good Juyce, he attained his
former health.

Observ. 70. *Inability to Generate.*

661. A Gentleman thirty years of Age,
having in the beginning of his youth much gi-
ven himself to Venery, and having had a long
Gonorrhea, in the height whereof he never-
theless used frequent Copulation, yea, with
impure Harlots; his Genital parts being ve-
ry much weakned by the causes aforesaid, he
became at last Impotent, which Impoten-
cy did not consist in want of Erection,
which he said was sufficient, but of Ejacu-
lation, which seldom followed. Now I
conceive it depended upon defect of Seed
which was bred in very small quantity, be-
cause of the weakness of his Testicles, whose
Natural

Natural heat was exhausted and dissolved by frequent Copulation. Paradvēture also his *Parastata* were faulty, receiving but little Seed from the Stones, by reason of Scars remaining in them, after those Ulcers which are wont to accompany those long lasting Gonorrhæa's. Also by reason of the cold distemper introduced into those weakened parts, through dissipation of the implanted Spirit. For the Cure of this Disease I prescribed these following Remedies the first of April 1652.

Take Emollient Decoction one pint and half: double Catholicon and Diaphæinon, of each six drams: Honey of Roses, Oyl of Lillies, of each two ounces. Make a Clyster, and give it at four a Clock in the afternoon.

The following day let eight ounces of blood from the Basilica Vein of the right Arm.

Take Senna half an ounce: Annis-seeds one dram: Roman Wormwood half a pugil: Boyl them to three ounces. In the strained Liquor dissolve Diaphæinon three drams: Syrup of Roses one ounce. Make a Potion, and let him take it the day after his bleeding, and be ordered accordingly.

Take Shavings of Guajacum four ounces: Fountain Water four pints. Let them steep twenty four hours, then boyl them till the Liquor is consumed, adding towards the end one ounce of Senna, Turbith, Hermodactils, of each three drams. Take of the strained Liquor half a pint every morning for twenty daies together three hours before he eats.

Take Sarsaparilla one ounce: Fountain Water eight pints: Steep them twelve hours: Let them boyl till a quarter is wasted away. Let him use the strained Liquor for his ordinary Drink with strong Wine, during the use of the foresaid Decoction: using the mean while Bisket made with Annis-seeds, Meats roasted and not boyled, Pine-Kernels, torrifed Almonds, and other dry Meats.

After the foresaid Decoction is taken, let him for three daies together take one ounce of Turpentine well washed in Agrimony water.

After the use of these Remedies let him go to the Belerucan hot Baths, Whose Water let him drink three daies together after the usual manner.

Afterwards let him use a Bath to sit in of the said Waters four daies together morning and evening, sweating in the mornings, and in the evening let him only Bath his Testicles, Perinaum, and the Region of his Share.

Still when he comes out of his Bath after the Sweat and Water is wiped off, let his Cods Perinaum, and Loins be anointed with this following Oyntment.

Take Oyl of Lillies two ounces: Oyl of Nutmegs half an ounce: Oyl of Cloves one dram: Pepper, white, black and long, of each half a dram: Seeds of Rocket, Nettles, Nigella, of each ten grains: Pellitory of Spain one dram: Wax as much as will suffice to make all into an Oyntment.

Take Oyl of Nutmegs two ounces: Oyl of Cloves one dram: Ambergreece half a dram: Musk and Civet of each one scruple. Make them into a Liniment.

After the use of the Baths, foment the Parts aforesaid for fifteen or twenty daies, an hour before he goes to Bed with the following Decoction.

Take Roots of Galangal, Calamus Aromaticus, and Florentine Orris, of each one ounce: Leaves of Sage, Marjerom, and Rosemary, of each one handful: Seeds of Rocket, Watercresses, Nettles, Cardamoms, and Cubebs, of each three drams: Nutmegs, Cloves, Cinnamon, of each half an ounce: red Roses one pugil: Boyl them in red Wine till a fourth part is consumed. Let him use the strained Liquor in a Fomentation as aforesaid.

After the Fomentation anoint the said Parts with the foresaid Liniment.

During the use of the foresaid Remedies, let him take every morning half an ounce of Conserve of Satyrion or Eryngos, or a Walnut preserved in Sugar, or a preserved Myrobalan, or two drams of the following Lozenges:

Take Confection of Alkermes two drams: Ambergreece one scruple: Musk six grains: Sugar dissolved in Orange-flower and Rose Water six ounces. Make all into Lozenges.

He may use the foresaid Remedies by turns, that he may not grow weary of any one.

Mean while let him use a Restorative Diet, especially let him frequently eat Partridges and young Pidgeons, young Hares, and Rice boyled in Milk.

For Junkets let him use Pistachies, Toadstools, Hartichoaks, Almonds, Hazel Nuts, Dates, and Pine Kernels; also the Confection made of them, which is commonly called *Pineolatium*.

Let him abstain from Fruits and raw Herbs, Filhes, and other cold and moist Aliments. Also from Carnal Copulation during the use of the foresaid Remedies.

Observ. 71. A Dropsie of the Breast.

662. John Manenty a Citizen of Montpellier sixty five years old, of a thick burly Body, for three moneths had been troubled with a great shortness of Breath, so that he could scarcely rest in his Bed, especially in the

the nights, at what time he was chiefly troubled. He had no Cough, or very seldome, nor did he spit up any thing to speak of. His face was somewhat swollen, and his belly began to swell, so that he seemed to encline to an Ascites; so his Legs and Feet did also swell. For his Cure was prescribed the beginning of May an universal Purgation for four daies, by a Flegm and Water-purging Apozeme. Afterwards a Sudorifick Diet-drink of a Decoction of Guajacum and Sarsaparilla for twenty daies, he being made to sweat plentifully in a Laconick Bath, made with the vapour of Spirit of Wine. And after every fourth Dose he took a Water-purging Powder of Senna, Turbith, Hermodactils, Jalap, Scammony, and Cream of Tartar; by which Remedies he was perfectly cured.

Observ. 72. A double Tertian in a Woman with Child in her seventh moneth.

663. The Wife of M^r. Bruijers, in the seventh moneth of her Gravitation, was taken with a double Tertian in the moneth of May, 1652. which vexed her a moneth without any shew of abatement, whereby she was very much in danger. For daily experience shews that Women with Child troubled with such like Agues, are very hardly cured, and many die of Abortion. She had been thrice let blood, twice purged, and many opening and cooling Juleps had been given her. Finally, being let blood an hour before her fit, and taking immediately before her bleeding a Julep of the Decoction of Chamomel and Cream of Tartar, her Ague was quite taken away. For the fit that was expected after her Blood-letting came not, nor any after.

Observ. 73. A Dropsie.

664. The Wife of a Taylor, my Neighbour, thirty years of Age, having been Cachectical all the time of her Childing, and disordered her self in her Child-bed, was taken with an acute Feaver, at the end whereof she fell into a Dropsie, wherein her Belly, Thighs and Legs were much swelled; and being poor, I prescribed her only this following Powder.

Take Senna, Cream of Tartar, Jalap, of each half an ounce. Let her take one dram in Broth every day. With this Remedy continued twenty daies she was perfectly cured.

Observ. 74. The Dug inflamed.

665. A young Woman about the Ninth moneth of her being with Child, was taken

with a swelling of her left Dug, with stretching Redness and Pulsation. A Chirurgeon being called, he presently applied a Pultis of Bread crums, whereupon the Tumor exceedingly encreased. I being called, prescribed a Pultis of Bean-meal boyled in Oxycrate to be often changed, because in a few hours it would become dry. In twelve hours the Inflammation was taken away, the Tumor very much abated, and within a few dayes quite vanished.

Observ. 75. A Cholerick Cholick.

666. M^r. de Chalanges, Farmer of the Salt-pits, was taken with a Cholerick Cholick about the end of January, 1653. The Pain was very tormenting, with continual watchings, a perpetual Feaver, and frequent Hiccupping, so that his ordinary Physitian suspected an Inflammation of some part in his lower Belly. But I being called to consult, conceived that all these Symptoms did proceed from a Cholerick Cacoehymia, moved by this reason chiefly, in that the pain was wandring, sometimes possessing the lower and Hypogastrick part of the Belly, and other whiles the upper and Epigastrick part: This Opinion the event made good. For after four times letting blood, many Emollient, purging, and pain-asswaging Clysters, Fomentations and Baths to sit in, he was cured with four Purgations used one day after another, of a Decoction of Cichory Herbs, and Capillary Plants, tops of Mallows, and two drams of Senna, wherein was infused one ounce of Cassia, and in the strained Liquor was dissolved one ounce of Syrup of Roses. Every day he voided much Leek-coloured Choler, which had caused the foresaid Symptoms.

Observ. 76. Inflammation of the Almonds of the Ears.

667. On the 21. of May, the year 1653. the Wife of M^r. Engarran, a Councillor in the Court of Accounts, was afflicted with a most grievous Inflammation of the Almonds of her Ears, which was soon followed by an exulceration with intense pain. Blood-letting being celebrated, and Gargarisms of Oxycratum being used two dayes together in vain, she was cured in a day with the following Remedy.

Take Mustard-seed one dram, Vinegar of Roses, and white Sugar, of each one ounce: Water three ounces. Make all into into a Gargarisme.

Observ. 77. *The Dropsie in a Boy.*

668. The Son of M^r. John Guy a Merchant, five years old, having been four moneths Hydropical; when other Remedies would not do, was cured perfectly with this following Syrup, used fifteen dayes together.

Take Roots of Elicampane one ounce, Leaves of Agrimony, Germander, Centaury, and Wormwood, of each one handful: Boyl them to a pint. In the strained Liquor dissolve white Sugar one pound. Make all into a Syrup, whereof give him one ounce every morning two hours before meat.

Observ. 78. *Hiccupping.*

669. M^r. Seguin troubled with a malignant Feaver, was tormented by a most grievous and almost continual Hiccup. After many Remedies opposing the Feaver and malignity, four Blood-lettings, and one Purgation, many Clysters, and many other Remedies, especially such as were appropriated to the Hiccup. On the twelfth day of the Disease he was purged again; his Hiccup was more frequent towards the Evening, although he had been sufficiently purged. Being called to advice, I prescribed two grains of Laudanum, with an Emulsion of the four great cold Seeds, wherein one dram of Sal Prunellæ was dissolved; within an hour the Hiccup went away, and came no more.

Observ. 79. *Impotency as to Generation.*

670. Take Oyl of Liquid Amber one ounce; Rocket-seed one dram. See the rest in Zacutus Lusitanus, Praxi admiranda, fol. 233.

If these Pills cannot be so soon prepared, these following may be used with much benefit.

Take Amber-greece, Musk, Lignum Aloes, of each one dram and half; Shavings of Ivory, Diamoschu dulce, Gallia Moschata, of each half a dram; Roots of Angelica, Peony, and Carpobalsamum, of each one dram; Civet as much as will suffice to make all into a Mass of Pills. Let him take a scruple or half a dram every night.

For a change this following Water may be sometimes used.

Take Cinnamon, Cloves, Nutmegs, Mace, of each one ounce; Cubebs, long Pepper, Galangal, Zedoary, Seeds of Ammi, of Selsi, of each half an ounce; Juniper Berries one dram; generous White-wine, Rose-water, and Marjeron-water, of each one pint. Let them stand

in digestion six daies, and then distil them in Balneo Mariae. Let him take two spoonfuls morning and evening.

Finally, other things doing no good, this following Opiate may be used.

Take new Satyrian Roots three ounces; new Parsnips three drams. See the rest in Zacutus Lusitanus, in Praxi admiranda, fol. 232.

Externally Fomentations and Liniments may be used, prescribed before in Obser. 69. to which also this following Plaister may be added.

Take Mass of Plaister de Baccis Lauri, and de Mastiche, of each one ounce; Gum Tacamahaca, and Caranna, of each half an ounce; Roots of Bistort and Tormentil, Nutmeg, Cloves, Ginger, and Powder of Aromaticum Rosatum, of each one dram; Nutmeg half an ounce; Balsom of Peru as much as will suffice. Make a Mass of Plaister, a part whereof may be spread upon Leather, and a square Plaister made thereof to be applied to the Region of the Loyns, continually worn, and renewed every week.

Observ. 80. *A long lasting Tertian Ague.*

671. The Wife of M^r. de Brissack, twenty years old, in the moneths of July and August was troubled with a double Tertian Ague, and that a very stubborn one, because her body was very much weakened, she having been seven moneths with child, and then miscarrying. Many Remedies had been used in vain by her ordinary Physitian, many Blood-lettings and Purgations, Juleps, Medicated Broths, &c. I being sent for, gave her an hour before her Fit Bezordici Jovialis twelve grains, with four ounces of Carduus Water. Her Fit was kept back two hours, and much lesser; also at the end thereof she had two or three stools, she being formerly alwayes bound, save when she took Clysters, and she voided very stinking Excrements. The day following the same Remedy was used, and the Fit was in like manner retarded and abated, and also at the end thereof she voided very filthy excrements, and afterward she had some Fits scarce discernable; and at last she was by little and little quite freed.

Observ. 81. *Flux of the Hemorrhoids.*

672. M^r. Engarran, Councillor in the Supream Court of Accounts, Subsidies, and Royal Exchequer, was troubled for five or six daies, whereby he voided eight or ten ounces of blood every day. After Blood-letting, cooling and thickening Juleps, and other

other internal Remedies and external used in vain; when the case was urgent, and the Patient very much weakned, I prescribed juyce of Nettles the quantity of two ounces, clarified by a light boyling, with a little Sugar, and with this Remedy alone, the Flux was quite stopped.

Friendly Reader; *Because there wanted in the Writings of Riverius the Observations requisite to make up this Century, I have therefore added these following, which sometimes comprehend divers Diseases of the same sort under one Title, for the greater clearness of Instruction.*

Observ. 82. *The Dropsie.*

873. In the year, 1645. one called *Felizat*, being become Hydropical, was cured without any Physick, his Navel being of its own accord suddenly opened as he walked in the streets; so that being returned home, he continually wet many Blankets and his Bed for some daies together, whereupon he lived well and merrily all the year after. But when the year was past, his belly grew again so great that he went about hardly able to fetch his breath. And when the Tumor was so encreased that he was almost choaked, and his Navil was very much raised; being strong, he desired me again and again that it might be opened, or else he would kill himself. Which when a Chirurgion had at last duly performed, and without pain, we suffered the Water presently to run the quantity of a pint, and at night as much more: but the same night his parts settling by little and little, his strength also failed: so that the day following he died. Whence it may appear, That the Works of Nature are not alwayes to be imitated, as may be seen in this Patient of twenty five years of age. For though he seemed to be strong, because he went about the Town, and could eat his meat well enough, yet we may conceive the Disease was confirmed, and that his Bowels were decayed by the former Disease.

I have heard of many Practitioners, that this Operation hath with Premeditation been practised upon many others, but none recovered.

I have many times cured an Universal Dropsie speedily and easily by Diureticks and Water-Purgers; which kind of Universal Dropsie was not that which they call *Lencoplegmatia*, which is hardly cured, for it is the effect of flegmatick, crude and ill-compacted blood, not well agglutinated to the pores of the Parts, nor

assimilated, and therefore redundant and superfluous in the whole body, through defect of the third Concoction, which ought to be performed in the several parts of the Body. And that herein the colour is whitish and milky, or black and blue, with want of appetite, and eager and continual thirst. But these Symptoms did not appear in the foresaid universal Dropsie, which therefore had a differing continent Cause, *viz.* A wheyish Humor settling within the skin, and other universal Membranes; whence it is by *Celsus* called the Water betwixt the Skin, which hath in a manner the same colour it had before; which also the touch confirms; for the skin being compressed with the finger flies black, the Water giving way of it self, and returning to the place whence it was forced by the hand: but in the *Lencoplegmatia* the mark of the finger remains imprinted upon the Skin, thick blood not easily flowing back again to the place from whence it was forced. Moreover, the speedy Cure that followed did shew as much, which further appears in these following Observations, which I therefore thought fit to annex.

Moreover, the manner of Solution did shew the difference betwixt the *Lencoplegmatia*, and the foresaid Universal Tumor: since an abundance of serosity in the whole Body is much more easily amended than a cold and dry distemper of the Bowels, the Parent of crude Blood. Now the foresaid Cure by me performed with Water-Purgers, seemed to me to answer to that saying of *Hypoerates* in *Coacis*, where he sayes; *At the beginning of a Dropsie a watery Loosness without crudity ends the Disease, and Purgation by the Kidneys.* The same Author hath also said, *If the water flows to the Bladder or Belly, the Disease goes away.* Whereas nevertheless Experience shews, That an Evacuation made by Urine, does succeed better than that by a stool.

A Country-man fifty years old, by reason of a Bastard Tertian Ague which had held him some moneths, fell into an universal Dropsie, from which we freed him with three ounces of the juyce of our Orris, and one ounce and half of Manna which was given him three times in seven dayes. Whereupon his Belly was quite fallen, a very great quantity of wheyish Humors being voided by Urine and stool.

Another twenty six years of age, by reason of a Quartan Ague long lasting, fell into an Universal Tumor of his whole body, in which the skin being impressed by his finger flew back, with an hardness on the Region of his Spleen. A Chirurgion without any or-

der of a Physician, as their manner is to do in the Countrey, gave him many Remedies a long time together, but all in vain; till being in a manner at the last cast, he implored my help, because I had once freed him from an acute Disease. Having therefore prescribed him some Remedies according to Art, especially Juniper Wine, he would use none but this last, being long ago weary of all Physick. He took therefore six ounces thereof every morning, whereupon his Urine did flow more plentifully and frequently, and his belly began a little to fall: which I understanding, and that he had laid away the other Remedies, I perswaded him to take only a dram of powder of Senna, Cream of Tartar and Jalap every other day for twelve daies together in Broth, and proceed in the use of his Juniper, on those daies he took not the Powder; which being finished, he perfectly gained his health, and returned to his wonted labours.

Observ. 83 *Tertian Agues.*

674. Frier *Bloysius* a Minorite at *Costa* having been troubled four moneths with a double Tertian, many Medicaments having been administered in vain by another Physician; he was by me cured in the hard Winter, by giving him twelve grains of *Riverius* his Feaver-Chaser, whereby being gently purged onely downwards, he had a worse Fit that day (as many times it is wont to happen in the use of this Remedy) and none afterwards. Yet after fifteen daies, by carelesness in his Diet, and over-much use of Fruits, light Fits returned, which by use of a light Cathartick went again away. Which in such kind of Feavers and Quartans, I have frequently used to do, when there happened a Relapse.

I cured a double Tertian Ague in a certain Costensian Taylor, thirty years old, of a melancholick and Flegmatick Temperament, having premised two purgations with fit Preparatives, and twice blood-letting, with the use of *Crollius* his Feaver or Ague-Medicament, of three ounces of Cichory-water, Salt of Wormwood half a dram, and Spirit of Sulphur fifteen drops. Upon the first Dose whereof the aguish Fits were abated, and by the third Dose quite taken away: which in twenty daies had not given way to the former Remedies. And I have for twelve years last past tried this Remedy an hundred times in sundry Feavers, and especially in Tertians, I alwaies found it successful. Now in want of Salt of Wormwood, we have often substituted Salt of Tartar, in example of my Master *Riverius*, and sometimes also with a deco-

ction of Wormwood, as may be seen in his Observations.

M^r. *de la Rivoire*, being troubled in the beginning of *August*, 1648. with a Double Tertian Ague, whose alternate Fits did most grievously afflict him with tumblings, thirst, head-ach, and shortness of Breath, was by me cured, premising a Clyster and Blood-letting, & giving in the vigor of the Fit to extinguish the thirsty Feaverish Spirits, a great draught of Fountain-water made tart with a sufficient quantity of Spirit of Sulphur drawn out *per Campanam*, and Spirit of Lemmons: which drink very delightful to thirsty Feaverish persons, being given three or four times in two daies, all the Symptoms of the foresaid Ague became far milder, and the Fits much shorter: so that this previous preparation of the Morbifick Matter, and abatement of Symptoms thus procured, the Cure was finished by the Earl of *Warwick's* Powder, and *Crollius* his Ague-Powder, given the two daies following. Now it is to be observed, that the foresaid Patient being thirty five years of age, was troubled with Obstructions of both his Hypochondries, especially of his Splen, and that every year almost, he was subject to grievous and long lasting Diseases, by reason of his heedless and fiery course of Life.

The foresaid Gentleman being sick of a Tertian Ague, in *July* the year following was cured with one dose of *Crollius* his Ague-Medicament, and because two Doses were sent, he gave the othes to a Girle ten or twelve years old sick of the same Disease, and so the Feaver vanished in both of them.

Frier *Christopher* a Finian of this City being forty years of Age, of a lean and melancholick habit of Body, in the beginning of *September* fell into a Tertian Ague, which I cured, premising a Clyster and Blood-letting, with one Dose of *Cornachinus* his Powder.

At the same time Frier *Norbert*, about thirty five years of age, of a firm habit of Body, and well flesh'd, was troubled with the same Feaver, which from the degree of heat, want of Appetite, Head-ach, unquietness, Caco-chimy, and length of the Fits, I justly conceived would prove long and lasting. Add hereunto, that in the year foregoing he was grievously vexed with the same Disease for an whole moneth, with a great weakness. After a Clyster injected and Blood-letting, he took twenty grains of Colomelas of *Turquetus*, and ten grains of Scammony in the form of Pills, whereupon he was gently and plentifully purged the same day, and three or four times the two following daies. And so all the foresaid Symptoms in a short time vanished;

nished, and he had only one light fit after he had taken the Medicament. *Calomelas Turqueti* is *Mercurius dulcis* fix or seven times sublimed, as you may see beneath.

Madam *Doiffin* a Nun, in the moneth of March, 1651. was freed from a Tertian Ague after four fits, by taking in the height of her fit twenty drops of Spirit of Sulphur per *Campanam*, with common Pilsan and Syrup of softer Cherries, or only with sugared water, which she drank twice or thrice like a Julep as her thirst was urgent. The day following she took of the *Mercurius Dulcis* aforesaid twenty grains; and Rozin of Scammony ten grains made into a Pill, which she took in the skin of a preserved Cherry, whereby she was very well and gently evacuated.

We freed the most Illustrious Countess *de Ferrieres* after the same manner, and by the same means, from a like Disease in the beginning of February the same year, in the bitterest of Winter.

We have seen many that had a long time used many Remedies in vain, cured of a simple and double Tertian, by taking once or twice of *Rulandus* his *Aqua Benedicta*. Others by a dram of Salt of Vitriol, and many whom these nor other things would not help, were cured by taking the Syrup of *Pseudoasarium* of *Lozellus*, the quantity of one spoonful. And indeed I have many times found the vertue and usefulness of Vomitories above other Medicaments experimented in vain in sundry cases, other things being suitable.

Also letting of Blood when the Moon is in the Full, we have seen very helpful in Agues, because then the force of the Moon causes the humors to boyl, and the blood is more fluid, and is easilier drawn out by Phlebotomy. With which Remedy used at that season, *Zacutus Lusitanus* testifies that he hath known many cured, and others eased. And I lately saw a Frier cured thereby, just before the fit of a double Tertian.

A Costenlin Woman threescore years of age, called *Luisa Soyson*, had been troubled five Weeks with a double Tertian Ague, whose every other fits were fifteen or twenty hours long, and they came in the morning with a light shivering, which did continue long; the other fits came about noon, and sometimes later with a remarkable shaking fit, nor did they last longer than twelve or fourteen hours. And therefore it was no small sign of divers humors putrifying in divers places; and therefore I foretold the Disease would prove long, or turn to a Quartan, because the Patient did alwayes complain of a pain in her left Hypo-

chondry. She had first a purging Medicament given her twice or thrice, and she was once let blood, and she had ever and anon a Clyster by the procurement of an ancient Apothecary. At last, I being sent for, did prescribe four Doses of Aperitive Roots and Herbs, cooling and specifical, adding to each Dose Senna three drams, Syrup of Roses one ounce, and Salt of Tartar half a dram. Whereby she was well-purged, but her Ague little abated thereby. But because of her age and weakness I forbore Medicaments for a time, to give Nature some leisure to recollect her forces, that I might afterward more happily purge out the humor by degrees. And so after some daies two Doses of the Apozeme aforesaid were given her every other day; whereupon the Ague three or four dayes after vanished for a day or two. But afterwards it came as fierce as before, so that sometimes it seemed to hold her continually; and so she lay languishing in bed about the Dog-daies in the year 1655. To her therefore at last I gave of *Riverius* his Ague-chaser twenty grains with *Confectio de Hyacintho* in form of a Bolus, at the greatest distance of her fit, wherewith she had five stools, and bore the operation well, and in her Fit she twice vomited a great quantity of leek-coloured matter, rust-coloured and clammy, with some gripes in her belly, which preceded two or three stools: the Fit was shorter, and never appeared more. Now this was worthy of observation, That in the Operation the Patient thought somewhat was plucked out of her left Hypochondry, where her pain had been before; which did evidently declare, that the Cause of the Ague there lurking, was evidently opposed by the Medicament.

A Youth of twenty years old being sick of a Tertian Ague in the Army of *Piemont*, took a Cup of White-wine hot, wherein he dissolved a piece of Brimstone as big as an Egg powdered; half an hour after he did sweat most plentifully, nor did the Ague appear any more. Which Medicament he tried upon two others in this Town, with like success.

Observ. 84. A Quartan Ague.

675. A Youth of *Savoie*, twenty two years old, of a good, fleshy and flegmatick body, had for two moneths been troubled with a Quartan Ague, who refusing universal Remedies by way of Apozeme and Blood-letting, I gave him twenty grains of the aforesaid Fever-chaser, whereupon of a Double Quartan, it turned to a single Quartan, and it being again twice given, the same dose,

Dose, he was perfectly cured.

A Priest fifty years of age very melancholick had been troubled with a Quartan Ague four moneths. Him I cured in the midst of Winter by giving him of the foresaid Feaver-chaser of *Riverius* twenty four grains; and after fifteen daies the Ague came again, and was again cured with the same Remedy.

The foresaid Madam *de Doiffin* thirty years of age, of a laudable temperament, elegant form, and singular wit, after sundry Diseases arising from sorrow, she fell into a Quartan Ague, whereof she was cured after 4. moneths, in the moneth of *December*, in the year 1650. after many Remedies tried in vain, with one Dose of the foresaid Ague-chaser.

My Nephew *Francis Jacoz*, twelve years of age, was troubled with a Quartan Ague after a Tertian, for six moneths, in which space he took many Medicaments, and the Feaver-chaser aforesaid, but in vain, partly because of his greedy eating, and partly also by reason of the bad disposition of his Bowels. At last with one Spoonful of the Syrup aforesaid of *Asarum* in common Ptisan he was cured, plentiful vomiting being three or four times raised of sundry humors so sticking to the sides of the stomach and the neighbouring parts, that they could not be driven out by Purgers frequently given, which did exceedingly deject his Appetite, and had already altered the colour and habit of his body; which nevertheless he recovered after a short time, by the course whereof the Ague was so abated, that he hardly felt the same till it went quite away, and he regained a good stomach, and a lively colour in his face.

My Nephew *Bernard* being thirty years of age, was troubled with a Quartan Ague in the moneth of *October*, 1650. for three weeks together, with want of Appetite, languishing, and a pale lean habit of the whole body. He took a little before his Fit one Spoonful of the foresaid Syrup of *Asarum* in Broth, he vomited frequently and largely very bitter humors, with straining for about two hours. So that for the following four daies, his mouth seemed to stink, and be bitter like soot, and his Ague continued, but became more light, and after seven daies went away upon his taking of *Mercurius dulcis* sublimed as aforesaid, the quantity of thirty two grains, and twenty grains of *Rozin* of Scammony (for he was hard to purge) and presently he recovered the fresh colour of his Face and his appetite both together, his strength growing every day more and more.

Frier *Osbo* a Recollect of this City, of a squalid and dry Temperament, being sick of a Quartan Ague for three moneths, with stretching and pain of his Spleen, and nightly Sweats, was cured in the moneth of *November*, 1651. by tasting at first an infusion of half a dram of Salt of Tartar with some drops of Spirit of Salt, and one dram of Senna made in six ounces of Fountain Water all night; whereby he was purged twice or thrice every day, avouching that his Appetite and strength did return by little and little, and his Ague was lighter, which afterward went away after seven daies; and being returned again, it was cured with fifteen grains of Scammony, and half a dram of *Mercurius dulcis* six or seven times sublimed, as aforesaid, which purged him exceedingly well and gently. He took again for three daies together the foresaid Tartarated and Laxative Ptisan. But because he did sweat plentifully every night, and the pain about his Spleen was not quite taken away, and he felt a great weariness in his Legs, he again took a like Dose of the Calomelas in form of Pills to prevent a Relapse.

A double Quartan Ague for two moneths most grievously afflicting M^r. *Rigoudin*, being of a Complexion very melancholick, by my advice it was cured in the beginning of *November*, Anno 1651. with three Doses of an Infusion of Senna in *Riverius* his Feaver-water, and once letting him Blood, because there were Indications of Blood-letting. Now this Feaver-water is nothing but Fountain-water with Salt of Tartar, whose wonderful effects we daily find in all long lasting Feavers and Diseases arising from obstructions, as may more evidently appear hereafter. At the same time my Brother fifty years old, having twice relapsed into a double Tertian, because he was troubled with many businesses and household affairs, and not well purged, he fell into a most troublesome triple Quartan, but after four or five Fits thereof, having twice taken the foresaid Infusion, and being well purged, he was freed from his Ague.

M^r. *Gruisard* a Costensian Merchant thirty years of age, having been troubled with a double Quartan two moneths, took twenty four grains of the Feaver-chaser in Pills, and his Feaver turned to a simple Quartan, and that a very light one, which becoming after some daies more grievous by reason of Errors committed in Diet, and sometimes double, otherwhiles triple; he having again taken the Feaver-chaser, it grew lighter and lighter, and by little and little vanished, he being ordered to keep a spare Diet. But being too much addicted to his Trade, to unseasonable

sonable Riding, and to humour himself in his Diet, he again fell into a Relapse, and took again thirty two grains of the Fever-chaser, and so by little and little he grew well again.

Andrew a Costa, my elder Brother, a Franciscan Frier, after an acute Fever of many daies, and many labours, fell into a Quartan Ague, in the year 1654. which he endeavoured to master by many Remedies, but all in vain. At last I sent him two Doses of *Riverius* his Ague-chaser about the end of Winter, in the year 1655. and so he was quite cured of the foresaid Fever.

At the same time a Country-man forty years of age, the Farmer of *Mfr. Dumas*, a Costensian Chirurgeon, being two moneths troubled with the same Disease, with one only Dose of the foresaid Remedy, he was happily and perfectly cured.

A Woman of *Tullin* twenty four years of age, having been for fifteen moneths troubled with a Quartan Ague, which was sometimes double: yea, and once becoming continual, it brought her to the last cast with a Jaundice face, a dejected appetite, leanness of body, and a remarkable Tumor of both the Hypochondries, especially of the Spleen, having little hope of recovery she came to me, earnestly desiring help if any were to be had for so many maladies. For her therefore in the first place I prescribed the Tartarized Laxative Ptsan aforesaid, in a Decoction of Hepatick and Splenetick Simples for the space of eight daies, with a Fomentation and Liniment of the same faculties, to be applied to both the Hypochondries. And afterwards *Bontius* his Tartarean Pills made of Aloes, Gum Ammoniack, and Tartar Vitriolated for twelve dayes after, which she took again for three dayes the foresaid laxative Ptsan. The Tumor and pain in the Region of her Spleen was much abated, her yellowish colour of her face vanished away, her Appetite began to return, and yet her Ague was still the same, which at last wholly vanished upon thrice taking *Riverius* his Fever-Chaser the day before the Fit. For so, after some daies without any fear of a Relapse she returned well and cheerful into her Native Country.

It were tedious to recount all to whom the foresaid Fever-Chaser was given, and either removed the Fever, or much abated the same, and never hurt any one.

A Costensian Taylor called *Gelus* was troubled with a Quartan Ague six moneths, and was freed therefrom by taking half a cup of White-wine, wherein he boyled Oranges cut in pieces, which he did every morning for some dayes.

Many Countrey-men in these Quarters do cure the Quartan Ague with Powder of Germanander dried taken some dayes in Broth, especially if some Purgatives had been used before: And I conceive this was not without reason, because it is a Splenetick and Hepatick Herb, and hath a rare faculty to free the Bowels from obstructions.

Observ. 85. *A Cholick Pain, and Mother-fits in the Menstrual Purgation.*

676. *Madam de St. Paul*, a Nun twenty seven years of age, of a laudable Temperament (as also a good Wit) but somewhat inclining to Flegm, about the time of her Menstrual Purgation, yea, in the Flux it self was wont to be troubled with a bastard Cholick pain, and that exceeding fierce for two or three dayes, whereupon her monethly Courses were sometimes suppressed. We sometimes cured both Diseases with a Carminate and Laxative Clyster; and other whiles with some drops of Oyl of Annised taken in Wine or Broth; so that the Cholick pain which was wont to stay long, was many times taken away in a moment.

The same Gentlewoman is many times taken with Mother-fits, with pain of her head and stomach; from which Diseases I have many times freed her with Salt of Vitriol the quantity of half a dram, or one dram dissolved in Fountain-Water; for it gently provokes Vomit, and all Chymists account it a Specifick Remedy against Mother-fits, also sometimes with some grains of Laudanum according to the description of *Crollius*, whereof she said she alwayes found rare effects; yea, and from the very smell of Laudanum alone, for she many times rowled a large Pill thereof in her hands, and smelt thereto.

A Widow forty years of age, a Costensian, being long vexed night and day with Mother-fits, with a Fever and watchings, so that she seemed to be at deaths door, after a Clyster or two, took four grains of Laudanum, and presently after she fell asleep, and all the symptoms vanished with the Fever.

Observation 86.

677. The Lady *de la Jassodiere* forty years old, of an excellent habit of body and Temperament, for about two years was troubled with a wheyish flux of Courses, which by fits was so plentiful, that it brought the Patient to deaths door. Being sometimes called to her, she being far from the Town, and Remedies not being at hand, and she fainted through the immoderate flux, I caused to be given her one dram of the Powder of burnt Egg-shells in Broth,

Broth, whereby the great flux of wheyish blood was much abated in a few hours, and the Patient being by little and little restored with an Analeptick Diet, after a while a course was taken with the morbifick Cause.

The most beautiful Wife of *Claudius Vivier* a Costensian, about twenty seven years old, after she had voided a Mole of two moneths growth, fell into an immoderate Flux of blood, which continuing three weeks, brought her in danger of her life, and caused her to lose so much Blood and Spirits, that she continually fainted away. Being sent for, I advised her to take four ounces of the juyce of Nettles morning and evening for two dayes together. When she had twice taken the Medicament, her Flux of Blood was very much abated, and before twenty four hours were past, it was quite stopped. At the same time she applied to the Region of her Womb a Fomentation with a Sponge dipt in Vinegar and harsh red Wine. This Medicament I have at other times used with like success in these cases, and *A-matus Lusitanus* in his Centuries very much commends the same.

Observ. 87. *A Dysentery.*

678. A Countrey-man sixty years of age, in the beginning of *August*, 1648. was troubled many dayes with a most grievous Dysentery, to whom, because Medicaments by Art prescribed could not suddenly be conveyed from the City, I caused a Pultifs to be applied to his whole belly of Wormwod and red Roses boyled in Milk, and I caused him to take four grains of Laudanum in the mean while. After a few hours his stools were not so frequent, his pain was asswaged, and the nights more quiet, so that he had no need of the Remedies prescribed.

The self-same thing a manner happened in another Countrey-man of twenty years of Age, who being brought to deaths door with an extreame Dysenterick Flux which lasted many dayes and nights, in regard of extreame pains and continual watchings; having taken three grains of Laudanum towards night, he passed the same night quietly, with easement, and cholerick Flux only, which was afterwards eased with due Remedies.

A certain Souldier of good credit cured many in the Army of Dysenteries and Loosenesses with one dram of Cork powdered, which he gave in Wine or broth; which Remedy you may see in the Observations of *Riverius*.

Observ. 88. *A Pleurisie.*

679. I have seen many, especially Women, who wanted the appropriated Remedies, and were reduced to the last cast by a Pleurisie, restored by the use of *Quercetanns* his Apple, taken once or twice in twenty four hours, by which means contrary to expectation they did either sweat plentifully, or void much by spitting. I could name many in a manner desperate, to whom I appointed this Remedy, and I alwayes found good success therefrom. And many have related to me the like success of this Remedy.

Observ. 89. *A Tumor of the Dugs.*

680. A Gentlewoman of this City newly brought to bed, being troubled with an hard swelling of her left Dug, and having tried many Remedies in vain for a month together, was cured with one dram of the Powder of those Bugs called Sows, prepared and taken in Broth three dayes together. I have many times seen the rare vertues of this Powder, and have heard relations thereof from such as tried the same, in such like Tumors proceeding from curdled Milk; also in Cancers of the Dugs and other parts. As it happened to a certain Religious man who had many deep Ulcers in many parts of his body, especially in his Legs, of which he was cured in a short time, by taking one dram of the foresaid Powder every other day for eight dayes, due Remedies having been premised. Moreover, this Powder being of thin parts, hath a rare opening and Diuretick faculty.

Observ. 90. *Tooth-ach.*

681. The Wife of *M^r. Dumas*, a Costensian Chirurgeon, being seven moneths gone with child, of a Cholerick Complexion, and recovered newly of an acute Disease, was taken with so fierce a Tooth-ach, that all Remedies being tried in vain, she lay many dayes and nights without rest, crying out and weeping; having tried all Remedies, yea, cutting and burning, she was almost brought to desperation. So that I was fain to give her in the nights (for then her pain was most urgent) four grains of Laudanum; which having with a little *Confectio de Hyacintho*, after a quarter of an hour she fell into a quiet sleep for some hours, and being awaked and void of pain, she passed the rest of her Childing-time pleasantly, though by reason of the rottenness and blackness of her Teeth, she was wont continually almost to be troubled with the Tooth-ach.

Observ.

Observ. 91. *The Venereal Disease.*

682. Mfr. Gr. a Costenian Merchant, being troubled with the Venereal Disease for some moneths, was cured by me without any other Remedies, by the *Opiata Neapocitana* of *Redonius*, to which he added every day, white Precipitate prepared with Spirit of Sulphur ten grains; and at times I gave him a dose of *Mercurius dulcis* six times sublimed twenty grains, with twelve grains of Rosin of Scammony in Pills, with the use of a Diet-Drink of Guajacum and Sarsaparilla for twenty dayes together, whereby he was cured.

Another young man, his Friend, troubled with the same Disease, was in like manner, and that same time cured, viz. about the Spring, 1648. and from that time I have cured many only with the use of the foresaid Opiate, the *Mercurius dulcis*, and the Decoction of Sarsaparilla, used a long time together. They whose Bellies were very loose, took half an ounce of the foresaid Opiate only every other day. I cured a Girl fifteen months old infected with the said Disease by her Nurse, with three or four grains of the foresaid Mercury, which she took some dayes together in Panada or Milk sweetned with Sugar.

Observ. 92. *The Consumption of the Lungs.*

683. I have cured a Consumption of the Lungs communicated by infection, beyond all expectation, in the beginning of July, 1649. with these following Remedies. And first with a Potion of Manna and Syrup of Roses in a Pectoral Decoction. The day following two Causticks were applied to the hinder part of his Neck. Afterwards Broths for fifteen dayes together of China Roots, Bugloss Leaves, Coltsfoot, Lungwort, and Corants; which at times were made Purging. Also the Patient continually used Conserve of red Roses, and many times towards night a Syrup stopping the defluxion, and staying the Cough, of equal parts of Syrup of Violets, of dried Roses, and of Poppies. Now the Patient was a Girl fifteen years of age, which had not had her Courses, but was troubled with a slow Feaver for three weeks, with a continual straining Cough, want of Appetite, shortness of breath, leanness of her whole body, and continual watchings. Which Disease she had contracted of her sister, who for some dayes had given suck to the most Illustrious Abbot of St. Paul, who died of the Consumption some moneths since: and the foresaid woman

being of a good habit of body died soon after of the same Disease.

The most Illustrious Baron N.N. after the Camp-sickness and long lasting Disentery, fell into an Heftick Feaver neer to a Marasmus, so that he was carried to *Lions*, given over by the Physitians there, and left to his Prognostick; and yet he was cured by a Country-man that had been troubled in the same kind with this following Remedy, viz. By a Broth taken some dayes together wherein red Snails being unbowelled and washt in Rose water, or some other Liquor, had been boyled, which is no strange practice, nor to be disliked: for we are wont to prescribe Tortoises to repair Heftical Persons, and other such like Aliments which have a solid, glutinous, and less dissipable substance.

Observ. 93. *The Pica and Green sickness.*

784 I cannot conceal the wonderful effects arising from the *Pulvis Cachecticus* of *Quercetanus*, by help whereof I have cured an innumerable company of Virgins, Widows, and other Women sick of the Green-sickness, *Pica* or desire to eat strange things, and many times withal Cachectick, universal Remedies being promised.

I have wondred to see Cats troubled with the *Pica*, as I have observed in mine own Domestick Cat which did eat coals and ashes, whereas for many dayes she would hardly eat any meat: And this is the Cause I conceive, why she never had any young ones.

Observ. 94. *A continual putrid Fever.*

685. About the middle of May, in the year 1652. the weather having been exceeding hot for some daies, and soon after the wind being Northernly, and so cold as to blast the tender buds of the fruits and Trees: and becoming hot again, it did indispose the bodies of People by such an inequality and sudden mutation. Which I (truly) found to my sorrow; for in those dayes being continually going into the Country to sick People, on the twentieth day of the same moneth I fell into a most grievous Head-ach with a continual Feaver, unquietness, thirst, and most troublesom watchings, with heat, sharp, and Biting to feel to. Which having afflicted me twenty four hours, presently after a Clyster, I caused my self to be let blood at my right Arm, whence issued ten ounces of adust blood, a little corrupted. Whereupon feeling little ease, I caused my self to be let blood again nine hours after, the same day, and lost nine ounces of blood, which

which seemed more corrupt, and after an hour or two my Headach and Feaver began to abate; and I passed the following night more quietly, with a sweet sleep of some hours: on the third day the Feaver wholly disappeared, which truly made shew of a longer abidance. So very true is that of *Hypocrates*, In the beginnings of Diseases, if any thing be to be stirred, then stir it; and as to the iteration of Phlebotomy, when it seems necessary for evacuation, it ought to be performed the same day; if for revulsions sake, on divers dayes. For when we are to vacuate, especially in acute Diseases, the body must suddenly be conferred into another state, because it many times happens that a Disease soon runs through its beginning, so that afterwards we cannot so conveniently use blood-letting.

Observ. 95. *A bastard and deceitful Tumor of the Liver.*

686. Sometimes a Schirrhous Tumor possesses the Epigastrick Muscles, which may indeed deceive younger persons, unwary or unskillful Physicians, as we saw it happen to an old and famous Physitian, whose credit is not thereby lessened; who took such a like Tumor for a Schirrhous of the Liver in a Gentleman, and prescribed the ordinary Medicament for that Disease, but in vain, since there wanted only external Medicaments, and by them the Cure was perfected. But that Gentleman, although sixty years of age, had his health very well for two years, and was of a fresh colour, which he had not born so long, if he had had a true Schirrhous of the Liver. Add hereunto, that the said Tumor did change place as often as the Gentleman turned to his left side, and M^r. *Riverius* was a witness hereof.

Observ. 96. *The stinging of Serpents.*

687. A Country-man being stung or bitten by a Serpent or Adder, had his body exceedingly swelled, yet he escaped, applying for some dayes together many Horseleeches every day to the wound or bite.

Those who in this Country catch Adders near *St. Hilaries Wood*, when they are by them bitten, they apply nothing to the bite besides bruised Garlick, the eating whereof is also very good in such a case.

A certain Hunter, my Friend, when his Dogs are bitten, rubs the hurt with his spittle, gives them cold water to drink, and so they are all cured. The same person hath related to me, That the Heart of an Adder presently given is a sure and sudden Remedy;

and the Powder of the said Heart, or of the whole Viper given in Broth or some other appropriated Liquor, does work the same effect.

My hunting Bitch being once bitten by an Adder, she suddenly fell down upon the ground, nor could go upright, but presently she would fall down again; whereupon I scarified the wound, and carried her into the next house, and gave her a Gobbet made of Treacle and Garlick, and so she was freed; yet her Neck where she had been bitten remained for some days swollen.

Observ. 97. *Chronical and old Diseases.*

688. In the curing of all old and stubborn Diseases, I have every where learned by experience and reading, That either Water-purgers and Sudorificks, or especially strong Aperitives, are very excellent; such as are Salt of Tartar, Spirit of Sulphur extracted *per Campanum*, and *Mercurius dulcis* six times sublimed; and such things as these used for a long time together, as I have observed an hundred times, and have prescribed according to the example of my Master, who did many times thus infuse Salt of Tartar and Spirit of Sulphur with one dram or two drams of *Senna* (sometimes with half a dram of *Jallap Root*) in Fountain Water alone, or in some time appropriate Decoction, as may be seen in his Observations; and so I have many times cured long lasting Agues, the quartan it self, the Green-sickness, Cachexia, Melancholick Diseases, and stubborn Obstructions of the Bowels, other Remedies proving ineffectual.

And *Riverius* did justly in his Observations call Water impregnated with Salt of Tartar, *Aqua Febrifuga*, where he calls *Mercurius dulcis* sublimed as aforesaid by the name of *Calomelas*, which is truly a Medicament deserving Commendations, a Purge that never does hurt, being given the quantity of a scruple with ten grains of *Rosin* of *Jallap*, or of *Scammony*, the dose of which things may be encreased or diminished. And truly I never saw but good success in the use of this Medicament, in innumerable cases, and in all Ages. And the Vertues thereof can never be sufficiently magnified by Chymists.

Observ. 98. *Practical Animadversions concerning Malignant Fevers.*

689. In the Years, 1649, and 1650. I have counted this worthy of Observation, in all Malignant Fevers which did so range abroad as to frustrate all Remedies, *Viz.* That all

all who at the beginning complained of their Heart, as the People are wont to speak, or who were taken with a light swooning or heart-burning, they did all in a manner dye. I conceive the cause hereof is to be referred unto a malignant quality, creeping now into the great Vessels, and the inmost parts of the Body, and that the stomach is grievously affected by that same venomous quality, before the Remedies to oppose the same can be given.

Those also who have an Headach long before the Feaver, and they that vomited worms in the state of the Disease, died also, and all that ever I saw escape did sweat much on the fifth and sixth dayes, which to me seemed strange, because it was unusual and besides the Laws of Critical dayes; and therefore I conceive that all the Patients relapsed, and that three or four times, and were again judged by sweat, besides those to whom light Catharticks were given; and whosoever were taken at the beginning with a continual Feaver and strong Symptoms, or have been otherwayes purged, or let blood, they did all in a manner perish. But those who about Autumn had a little Physick given them, they sooner escaped.

This one thing I shall speak concerning Remedies, viz. How I saw wonderful Experiments of *Bauderon* his Treacle Water, and of another Treacle Water less compounded, yet, in desperate cases, and in those who had the purple Spots, or in whom the small Pox then rose, were gone in again.

A Looseness at the beginning was also in a manner deadly, unless there was somewhat hanging in the Urine, and a continuing Sediment with a good colour. They also sooner escaped, who had blood sparingly let, and who had no purge given them, which was dangerous to give, and destroyed many.

The whole following year 1651. especially in the Autumn, I found this to be most certainly true, which *Fernelius* sayes of Cacochemical bodies, who need Purging, but refuse to purge, endeavouring to refresh themselves with meats rather than Medicaments; They do not (sayes he) nourish themselves but their own distemper. For so Nature being content with a little, does the better perform her Functions, nor are putrid or crude Humors collected in the stomach, nor do they slip in from else where to destroy the actions thereof, and so life is prolonged and rendered more lightsome by the benefit of temperance alone, she being the only guide of a healthful life, as *Hypocrates* hath said, and before him *Ecclesiastes* with words wholly Divine; Through Gluttony (sayes he) many have died, he that is abstinent shall

lengthen out his life. Now all that escaped from these Popular Feavers, were temperate, and all that relapsed (which almost all did) it was because they did eat overmuch although they seemed to eat but little. And those meats of good juyce and easie digestion; which all the Patients well-neer did confesse, in despite of their Appetite.

Observ. 99. *The Pestilence.*

690. A certain man that had the care of the third part of a certain City infected by the Plague committed unto him, cured all in a manner with a Vomit made of two drams of Vitriol, two ounces of Honey, and six ounces of Water mingled together, which he gave as soon as there were any signs of the Disease present or coming: so that hardly ten or twelve died in his Precinct, whereas in other places few escaped. Which does also further denote the vertues and necessity of Vomits in such like cases; as also so many Observations of Authors do prove, and those which we observed in the Costensian Pestilence, in the former Edition of *Riverius* his Observations.

Observ. 100. *A Suffusion and Cataract.*

691. A Woman thirty years of age, having been a year blind through a confirmed Suffusion, which is commonly called a *Cataract*, recovered her sight, after universal Remedies promised, by the help of *Aqua Ophthalmica Quercetani*, used a long time together, and taking Purgations betwixt whiles; but instead of Celandine Water, which the Author prescribes, I substituted white Wine in imitation of my Master aforesaid, by whom I have seen the foresaid Water with happy success many times prescribed, and I heard as much.

A Maiden of twenty years old, having been troubled many moneths with an extream pain, and great redness of her eyes, with continual flowing of Tears; at last she was brought to this pass, That she could hardly hold up her eyes for a year together, and could hardly go without she were led. To her sundry Remedies of all kinds were administered, but in vain; only she was cured by Sections made in her Ears by my advice, viz. in the ends of her Ears, holes were made with a triangular Bodkin red hot and bits of the Root of *Thymelea* were thrust in, which were afterwards covered with *Diachylon cum Gumma Plaster*, renewed once or twice a day if need were, after the manner of a vulgar Seton for divers dayes together.

Verily it is a strange and incredible thing

what a quantity of serous Humors we have many times seen drop down through these holes; so that hardly so much would come in ten dayes from a Seton, as would sometimes in twenty four hours run at these passages. Nor is this good only in such fluxions to the Eyes, but also to all other inferior parts (especially the external parts) as the Breast, Teeth, Joynts, &c. We have often seen the good it hath done, and we have known many freed from an eminent Pthifick proceeding from a thin and sharp distillation, hereby. So that it is worth the while for all Practitioners of Physick to bring these Setons on the Ear into use, for the averſion and evacuation of all fluxions, in sundry Diseases.

Certain Observations of unusual Diseases, and hard to cure, with their Cures, found in a certain old Library without the Author his Name.

THE PREFACE.

THe Occasion why I have taken in hand to write of the Rare Cures of some Diseases, which have happened in my time, is this: Because in regard that daily some new Diseases arise, or at least attended with unheard of Symptoms, of which it is apparent that few or none have made mention. And moreover we find that many old Diseases, return afresh, to find the true and proper Cure whereof many good hours are spent in vain, because an hundred Books must be turned over before we can know the Disease, or how to cure the same; therefore we have collected some strange flowers as it were both out of all the best Authors, and from our own long use and Experience, which every one may use at his pleasure. And from hence he may learn the Cure of such Diseases and Symptoms as rarely happen.

Observ. I. Hiccupping.

692. A certain German being about the age of forty years, was taken with Hiccupping, which was afterwards attended by strange and almost incredible Symptoms. This man therefore being come from Germany as far as Nemours, for to buy Box Roots,

which is a great Commodity in Gallia Narbonensis, and being exceedingly inflamed by the Sun heat (for it was in the Dog-dayes) being exceeding thirsty, as soon as he came into his Inn, he took the pail of a Draw-Well full of cold Water, and drunk so largely, that in regard of the quantity and coldness of the Water, he fell into a Convulsion of his Stomach, which was so great, that by no Remedies nor course of Diet, for two moneths together, he could be cured; yea, the more we endeavored, the more were we frustrated by the Disease.

But this was chiefly to be wondred at, That as soon as any one did but touch the hem of his Clock or Coat, his Hiccup being ceased before, it would thereupon arise with so great concussion of his whole body, that the very boards of his Chamber would tremble, and Dr. Rondeletius coming by chance to some Patients at Nemours, he was called to advise with Dr. Ferrand and other Physicians and Chyrurgeons that were then in that Town; and at last when all had said their minds, why he was so hard to be cured, also by what means he might be holpen; they all agreed that the cause was an exceeding great distemper of his stomach, which made these Symptoms last so long. But as to the Remedies; They thought good he should continue the use of Fomentations, Cataplasms, Embroches, Cupping-glasses, (Purgation not being neglected) and the taking of Syrups, Opiates, and Powders, fitly to his purpose citing that Aphorism of Hypocrates: When a Physician does all thing according to Reason, he ought to persist, though the wished effect do not presently follow. But I having in vain tried all Remedies that were agreed upon by us, begun to think with myself, that an hot Bath might change so great a distemper, and reduce the stomach to its natural Temper; partly, because through long tarriance in the Bath, the force of the Bath might more readily penetrate into the habit of his body, whereby there might be a communication with the Member affected; partly because I supposed the Medicaments would pierce the more if they were mixed with the Bath, because of the greater looseness of the Skin caused by a hot Bath; nor did my Opinion deceive me, because a Bath being made of Bayes, Origamum, Mints, Wormwood, boyled in Water, he found so great good by staying therein, that he was cured in four or five dayes. Moreover we applied a bag full of the foresaid Herbs to the Region of his stomach while he was in the Bath. Nor must it be forgotten, That the Hiccup for two moneths space did so vex that German, that crudity now being rooted in

in his Stomach and Guts, his case seemed desperate. But by the help of God, who illustrates the minds of men when he pleases, and leads us by the hand as it were to find out Remedies, he was restored to his former health, not without the admiration of the Doctors of *Montpelier* and *Nemours*, who had seen him.

Observ. 2. *The Phthisis.*

693. A certain *Catalonian* about forty four years old, in whom blood and black Choler were the domineering Humors; having two years before (as he said) been troubled with a light Pleurisie, and neglecting the Remedies prescribed by his Physician, he had fallen into a Phthisis or Consumption: for having three years together spit blood and quitor, so great a leanness possessed him, that his bones were ready (as they say) to come through his skin. In the mean while the Cough did so disquiet him, that he could hardly sleep a wink because of the great abundance of purulent matter, driven by Nature through the *Trachea Arteria*, which would boyl in his Throat, and hinder the freedom of his breath. Calling therefore the chief Physicians of *Avignon* to consult with me, nothing was omitted which might seem necessary for the Recovery of his health; and when all did no good, I advised him to send to Dr. *Schironius* and Dr. *Rondeletius*, Professors at *Montpelier*, as to the Oracles of Physick (being men of cleer wits, and exercised by long experience in curing Diseases) and to desire them to prescribe him some Remedies, if not for a perfect Cure, yet to assuage his Malady, that he might not live still so miserable a life, not able to eat nor rest, so that himself was wont to say, that he had rather dye than live in that condition, wherein his life was worse than death. Those Physicians therefore of *Montpelier*, seeing all things which we had prescribed, added nothing but that he should frequently eat River-Crabs boyled well in Barley Water, and also of Wood-Snails or Land Tortoises, annexing certain forms of Medicaments, which they call *Pandaliones*, and so they sent the Patient to a place of like Temperament with the *Tabia* celebrated by the Ancient Physicians, viz. Where there was an open Haven, an high place, and very dry: and whereas he was now weary of his life, as having been for above four years exceedingly troubled with this Disease; he took me by the right hand, and entreated me for Gods sake to free him from this shaking Disease, or by trying the most desperate Remedies to rid him out of the way, I will

take all the fault upon my self, and free you from blame. Seeing it is your desire (quoth I) I will experiment upon you one Remedy remaining, delivered by *Galen*, that excellent Physician. viz. The Smoak of Orpment Trochisks received in at the mouth. This one Remedy is remaining, whereby many in a manner desperate have been recovered. And therefore I advise you to make use thereof, seeing other Remedies have been used in vain: I confess indeed this kind of Remedy is too strong for your weak state of body; but you shall use them in so small a dose as we judge may answer your strength. At last therefore he began to take the fume of those Trochisks, being laid upon the coals, in at his mouth through a funnel, at the Evening. But he said in the morning when I came to see him, that he would use them no more, because he believed his breath would be quite stopped if he should use them again. But I would not be quiet till he had tryed the said Trochisks once again as before. To be brief, late in the night following, after he had suckt in the vapor of the said Trochisks, so great a shaking fit did invade him, that not only the bed wherein he lay, but the whole floor of the Chamber seemed to be shaken as it were with an Earthquake. But he thinking himself to be at deaths door, sent a Boy to call me; I was willing to go to him upon so urgent an occasion, and when he beheld me coming in, Because (says he) I would not dye without taking my leave of you, I have sent for you now never intending to send again; and also that you may be an eye-witness of my miserable condition. But I feeling his Pulse with my four fingers, I perceived him to have a waving pulse with strength of his vital faculties, & fore-told that he would shortly fall into a great sweat, which sweat happened soon after so plentifully, that his Pillows and Bed cloths were all wringing wet, as if they had been dipped in a pond; and a while after he fell into a sleep and desired rest, without any coughing or hauking. In a word, he lived more than fifteen years after this in perfect health. But I wonder in this case, how so great plenty of sweat did flow from so dry a body. This happened when I was a young Practitioner of Physick. I related the matter to *Rondeletius* in a Letter, who wondered at the strange and sudden Cure of such a Disease, and promised me to set down the story of this Disease in his Commentaries.

Observ. 3. *A Malignant Fever.*

694. Never more cruel Symptoms happened to any man, than those which beset a certain

certain young man of *Nemours* called *Grasset*, dwelling at *Belliquadre*, in the year 1574. He being twenty or twenty two years of age, fell into a burning Feaver, wherein he was tormented with unquenchable thirst, his Tongue was black, his watchings perpetual from the fourth to the ninth day. He swet a little and unequally. Then he began to rave, with a thin Urine and rare Pulse: On the eleventh day he ground his Teeth, was convulsed, had shaking fits day and night, with terrible out-cries and yellings; his Pulse appeared inordinate and disturbed. On the fourteenth day his Urines were plentiful, and his stools not without raving, fainting, convulsions. On the seventeenth day many Spots and Pushe came out all his body over, each of the bigness of a Bean, black and bleu of color, which eating the skin and devouring the flesh, made hollow Ulcers, as if they had been burnt with a red hot Iron; and they were as deep as a mans thumb is thick. On the twentieth day great hard Tumors brake forth under both the Ears. Then the Feaver began by little and little to abate, all which being in a long space of time cured, and the Patients strength being refreshed, he came safe to *Avenion*, and relateth the whole course of the Disease to *Dr. Phillippus Guibelmus*, how that as to the Cure, it varied not from the ordinary Method in such cases. For his Urine being viewed and a Clyster injected (his belly being bound) he was let blood, and his blood appeared very corrupt. Then he had Juleps to extinguish the Feaverish heat, and to hinder putrefaction. On the eighth day he took an Infusion of Rhubarb, with *Diaprunum solutivum*. His Watchings were holpen by Syrup of Poppies, washings of his Legs, Populeon Oyntment smeared upon his Palms of his Hands and Soles of his Feet. But it is incredible how much his ravings were abated by the Milk of a Woman that sucked a Girl, mingled with juyce of Lettuce and Oyl of Roses. His faintings were remedied by Epithemes applyed to the Region of his Heart, and mixtures Cordial. His grinding his Teeth was holpen by Oyl of Chamomel and sweet Almond applyed hot to his Neck and Temples, moist Wool being laid thereupon. The Ulcers and Pushe remaining were cured with *Unguentum album Camphoratum*, the Tumor behind the Ears with Oyl of Chamomel and Lillies. Afterwards when we perceived that they inclined to suppuration (for the hardness of the matter would not admit of discussion) we are forced to pass to the use of Plaisters of Mucilages, Emollient Herbs, *Diachylon magnum*, and others such like. But after he came to *Avenion* and the Tumors broke, we left the rest of

the Cure to the Industry of *Dr. Phillippus Guibelmus*.

Observ. 4. *A Malignant Feaver with a deep sleep.*

695. The sickness of the Wife of *M^r. Former*, a Lawyer at *Nemours*, is worth recording, who after her Husbands recovery of a malignant burning Feaver attended by all manner of cruel Symptoms, viz. A Bastard Phrenzy, grinding of the Teeth, unquiet tumbling and tossing, unquenchable thirst; fell into a continual Feaver by reason of watchings so many nights about her Husband, fasting, care of her Children, and her household occasions: and she continued sixty dayes with one continual heat without any kind of intermission, as it were astonished with her eyes winking; nor did any Crisis in the mean time appear during the whole course of her Disease, till the sixtieth day, wherein she only voided white and froathy spittle without any Cough (so that she filled a Basen that held twelve pounds with Liquor) which being abundantly voided at her mouth, she returned freed from her Feaver to her self, avouching that she had felt no pain nor trouble from her Disease, and she could hardly be perswaded that she had been grievous sick, and in great danger of death. Mean while, you are to understand, that nothing was omitted that might any wayes belong to the true Cure of the Disease. For we began with blood-letting (for this Woman was young and plethorick) and so we proceeded to Clysters, Cupping-glasses, and such things as hinder sleep.

Observ. 5. *A Wound by Gun-shot in the Bladder.*

696. I am afraid I shall be accused of vanity for relating a thing unheard of and incredible; but yet true: But credible. Persons as well excellent Physitians as expert Chyrurgeons, not to speak of Gentlemen and other considerable persons, who were present at the Cure, will free me from all suspicion of Forgery. At what time therefore the Inhabitants of *Nemours* with white Frocks on their backs, passing the River *Rhodanus*, put to flight those that had secretly entred the Town of *Belliquadre*; one of those that fled, being wounded with a Bullet which went in at the passage of his Yard, and pierced through his Bladder, and the right side of *Os Sacrum*, so that his Urine came out at the back part of the Wound, the Urinary Passages being hurt only by an excoriation

coriation as it were, he was perfectly cured by the Chirurgeons of *Tarascon* with my assistance, viz. *Antonius Fortunatus*, and *Johannes Bonnetus*; and which is strange, only by trivial Medicaments, such as were at hand. Three things therefore in this case may cause admiration in all that are skilled in Physick. First, how the Bullet got into the Passage of the Yard, without hurting the Yard, only excoriating the Passage. Secondly, by what reason or propriety of Nature the wounded Bladder, which is wont to reject all Remedies, came to be cured. Thirdly, how this was done without any secret Remedies, only with such ordinary things as were at hand; whereas many times in other wounds not so mortal, we are forced to use exotick and precious Remedies, and yet cannot perform the Cure. For at the beginning the Chirurgeons used the common Defensive, which they laid about the Wound, and then they applied a Tent smeared with Basilicon and the Yolk of an Egg, after that, Ointment of Rosin; and then Flesh-breeders, and things to cause the Scar: whereby he was so happily cured that he yet lives at *Arles*, his name being *Borian*. All the chief men of *Tarascon* saw this wonderful Wound, with Dr. *Philippus Guibelmus* and *Bertrandus Vanius*, who with me did search the Wound with an Instrument, and after curious Inquisition found it to be as we have said.

Observ. 6. A Tumor in the Leg.

697. I must not pass over in silence a strange kind of Disease, viz. A Tumor in the inner part of the right Leg of the noble and virtuous Gentlewoman Madam *Deledignam*, being then a Widdow. She therefore having a swelling in that part like a Phlegmon, was so tormented night and day, though *Rondeletius*, who with me was called to the Cure, applied sundry Pain-affwaging Medicaments, that she seemed past hope. For the more we endeavoured to soften the Tumor, the more it seemed to strive against our endeavors; and yet she was never free from her pain. Wherefore we were compelled to open the Tumor with a Caustick Medicament, that the Humor therein contained, though crude (as we conceived) and which caused the pain, might have a passage forth. When therefore we supposed the Caustick had done its work, undoing the Swathebands, we found no humor within the same, nor did we see any wheyish Humor come forth. Yea, and (which is the greatest wonder) the Wound gaping wide, we saw the flesh beneath the same not at all diminished nor altered; and we judged that there

was no other cause of so great a Tumor and pain but Wind. And all Physicians we could meet with, said, they never saw nor read of such a Tumor, both because wind should raise so great pains, as to cause faintings and continual watchings; and because nothing was found within the Wound, differing from the Natural Constitution of the part. After the Tumor was opened, and the wind dissipated, all the Symptoms vanished, and she was afterward as well as if she had never ailed any thing.

Observ. 7. A Palfie of the Tongue.

698. I am many times moved to wonder at the works of Nature; for upon the Dissection of Bodies, such wonderful things are found as we should not believe did we not see them with our Eyes, such as happened while I was at *Nemours* to *Robert Barriere*, for all his life-time in a manner a perpetual distillation falling down upon the Nerves ordained to move his Tongue, did so hinder his speech as to cause a troublesome stammering, which could never be by any means cured; whereupon at last the fluxion was so augmented, that he suddenly died thereof. His Friends therefore who were present at his death, desired me to cause him to be opened, that the Cause of the Disease being known, it might be for time to come better cured. His Skull therefore being in the first place opened, and the outer parts of the Brain being on each side leisurely removed, a Bladder appeared to us made of a strong compacted Membrane, containing therein a wheyish Humor, which having in the bottom a small hole, did alwayes supply new matter to the Nerves of the Tongue. Wherefore, since this serous Humor could not by any Medicaments, or any policy be dissolved, both in regard of the plenty thereof, and of the thickness of the bladder, which kept off the force of the Medicaments; we said with one consent, that the said Disease could admit no Cure. But who, I beseech you, would have thought, that a bladder bred within the substance of the Brain, full of wheyish Liquor, had been the cause of so pernicious a Distillation.

Observ. 8. A Syncope from the Spleen.

699. A stout Gentleman, *M^r. Egminius* of *Tarascon*, was troubled with a certain kind of Disease, which I suppose hath been known or heard of by few. For he related to me, that as soon as he lay upon his left side he presently fell into a fainting fit, so that he was hardly recovered therefrom, all his

his forces were so decayed: but otherwise he felt no pain nor inconvenience, nor did he for that cause eat the less meat; yea, he said he could do all his business he was wont to do in his perfect health. Thinking therefore seriously with my self, and musing what the reason should be that so cruel a Symptom should seize upon him without any manifest Cause, and should leave him almost dead: I began to conceive, that a melancholick humor, having some malignant quality, sent a venomous vapor from his Spleen to his Heart, which was the Cause of so malignant a Symptom: nor did my opinion deceive me; For having appointed him a convenient Diet, and purged his whole body of the Melancholick Humor, and given him a Medicament of purpose to open the obstructions of his Spleen; and finally having strengthened his Heart both by Epithemes and Cordial mixtures, he was perfectly freed from so deadly a Symptom.

Observ. 9. An Epidemical Disease called the Coqueluche.

700. In the year 1557. in the month of July, a little before the Land-Flood which laid waste all the Fields of *Nemours*, and the whole City almost, there was rise an Epidemical Disease (called *Coqueluche*) which spared no man; so fierce and cruel, that it killed very many, some on the fourth day, others on the seventh, or on the fourteenth at the furthest. They were taken with a Cough, soreness and inflammation of their Throats, and a continual Fever. The Patients were troubled with a continual Head-ach which was vehement, nor could any sleep for the Cough, which was so fierce that it made them hoarse again. Also they had a continual sharp pain of their Kidneys and Loyns, which caused that few were able to go, and a perpetual pose would hardly suffer them to draw in air at their Nostrils. But those that escaped so great a Plague, after blood-letting and Pectoral Medicaments, were freed by a stinking sweat which proceeded (Nature being strong) from their whole body: but those who being wasted with the Fever and fasting, could not endure the sweat, they perished apace. Wherefore the chief intent of the Cure consisted herein, That universal Remedies being given without delay (although they needed only a gentle Purgation) their Appetites might be revoked, and way made through their Throats to receive in the meat. For Purgation, Manna, Cassia fistula, and Rhubarb with a Decoction of Pectoral Herbs did suffice. Stronger Medicaments were avoided as most dangerous.

Observ. 18. An Epidemick Fever.

701. An epidemical Disease not unlike the former, raged in the year 1580. the greatest part of the Summer, after an innumerable company of Insects came out of the Ground, in the months of April and May, which came in so great multitudes, that all the wayes and paths were filled, whereupon, not long after, at *Arles*, *Avenion* and *Bellicadre*, and in other places not far from these, so great a Pestilence raged, that very few could escape the same. But to return to the business in hand, The foresaid Disease killed many; but if Remedies were speedily applied the first dayes, all in a manner escaped. It began with a Fever and a Cough together, which was followed with a pain of the Head and Loyns; mean while the Fever did intermit some dayes, coming again, and growing still hotter and hotter, it brought them to their Graves. Some had no respite. Some raged with Phrenzies, some died languishing of a Phthisis; but if they were taken in hand betimes, as hath been said, they all in a manner recovered within a few dayes. Nor was the Cure different from that lately described, for the things that did greatest good were Pectoral Medicaments, and gentle Purgations (not forgetting blood-letting especially) cooling Clysters, Cupping-glasses, Cordial Opiates, and frequent Epithemes; finally, by a good Diet appointed them, they attained their perfect health.

Observ. 11. Swallowing hindered.

702. M^r. *Bonius* a most renowned Lawyer of *Nemours*, was troubled with a most grievous pain of the Stomach with extream difficulty in swallowing, and a continual Fever attending the same; and whereas before my coming, Purging Medicaments had been prescribed, and they had done no good, because they could not descend to the bottom of the Stomach: as soon as I came to him, and had diligently handled his belly and Hypochondries, I found a renitency and distension in all those parts, and also an inward rumbling which broke forth at his mouth by frequent belchings, which was the cause that neither any Broth nor meat could descend to the bottom of his stomach, viz. the meat being born up and kept aloft by the abundance of wind. And therefore since there was danger lest the body for want of eating should be consumed, seeing he had abstained from meat now four or five dayes, I was intended to direct all the scope of the Cure to this intent, viz. To discuss so great a quantity of Wind

Winds. And therefore a Clyster having been first injected, I caused to be applied to his Stomach and Hypochondries hot Fomentations of a Decoction of Wormwood, Mints, Chamomel flowers, Melilot, Cummin seed, Fennel seeds, and such like things; also I caused those parts to be anointed with Oyl of Nard and Chamomel hot, whereupon he grew better, began to swallow, and to conceive good hopes of recovery of his health, whereas before, as one desperate, he thought only of dying. Then at last I ordered a Cupping-glass to be applied to his Stomach with much flame, whereby the winds were so powerfully digested, that afterwards he could swallow Broths, and all manner of meats, and thereupon the Feaver was chiefly extinguished by a plentiful voidance of Urine. But to avoid a relapse I advised him to purge again.

Observ. 12. *A Malignant Feaver with Pulses.*

703. The ordinary Judg at *Nemours* called *Blanus*, was troubled with a Tertian Ague that held him with most fierce fits. Dr. *Vegratius* was his Physitian, being an ancient man. The Patient therefore in one fit, being troubled with so vehement and malignant Symptoms, that he fell into a swoon, viz. Because blewish spots were suddenly broke out all his body over: And being unwilling to omit any thing that might contribute to his health, he sent for me to meet with Dr. *Vegratius*, and as soon as I came to him, he complained of an intollerable burning caused by the Purples, with a weakness of his forces, and beseeched me to give him sudden help being in so great danger. And I well considering the spots which still seemed to come forth, and feeling his Pulse, bid him be of good cheer as to his escape, and taking Mr. *Vegratius* by the right hand, he went into a remote Chamber to consult what was fit to be done. He having related all things which he had prescribed, he asked me what I conceived was to be done: I taking the word out of his mouth exprest my self to be of opinion that he should be let blood with all speed, or else he would come into great danger of his life: but he was against it, saying that it was to be feared lest the malignant humor being dispersed through the skin (the common way of purging the whole body) should strike in again, and seize upon some principal part. I pressed to have it done, for according to *Montanus*, *Avicenna*, *Aetius*, *Rondeletius*, and many others, I said that might be upon their first coming forth, while Nature was expelling the vitious matter; but when the matter

is for some dayes settled in the Skin it will not be revoked within the body again. Wherefore he at last came to be of my mind, and I told the Patient with a chearful countenance, that he should be recovered before we departed; if he would suffer himself to be let blood: and he answered, that he would endure any thing to be freed from so great evils. The *Saphena* therefore not being visible, we caused the common Vein of the right Arm to be opened, which being done, that came to pass which I had foretold, for before we left him his burning was abated, and that cruel Symptom was asswaged which caused his fear. Whereupon it cannot be exprest how he extolled the Art of Physick, and us his Physitians, for so great benefits conferred upon him. Hereupon we made hast to expel the reliques of the Feaver, which in a short time we did, by Gods assistance.

Observ. 13. *Worms.*

704. I saw two Virgins, the Daughters of Mr. *Fezander*, a Notary at *Nemours*, whereof the one was seven years of age, the other not above nine, who in the space of half a year died both of them of a most grievous pain of their whole belly, which could not by any Remedies be asswaged, as Clysters, Flegm-purging Potions, Wind-discussers, and Worm-killers. The elder therefore being dead, when we opened her body to find out the hidden cause of her death; Worms were found in her lower belly; which had pierced through her Guts, especially the Colon. Six moneths after the other sister being dead with like pains, and opened, we saw not only the Guts gnawn and eaten through by Worms, but also the Heart and Liver gnawn and deep hollowed by the said Worms; which thing caused no small amazement in all the By-standers, questioning which way the Worms should get from the Guts to the Liver and Heart, since in those parts there was scarce any such aliment as they desired, nor was there any matter fit to breed Worms, although one was of opinion that they came of putrifaction bred in those parts: moreover, they had no ready way, but full stops, turnings and windings. Wherefore we could only wonder at the Works of nature, not being able to find out the Cause. And when we departed, we prescribed for the Girls that yet remained alive both Powders of Scordium and white Dittamus, and Worm-killing and expelling Oynments, whereby we prevented the generating of such like Worms for the time to come.

Observ. 14. *A Tumor of the Oesophagus.*

705. A Tumor sometimes breeds in the *Oesophagus* or Gullet, which will not let a man swallow his meat, and the Patient is wont to grow weak by fasting; The Cure whereof (not to speak of the way to know it) is very troublesome to the most able Physicians. Thus with happy success I began the same. First appointing the Patients Diet, and having used universal Remedies, that is Blood-letting (especially when there was a Fever or suspicion of Inflammation) also Purgation, and revulsion by Cupping-Glasses, this following Lick-pot we found good.

Take Conserve of *Roses*, of great *Comfry*, of each half an ounce, Conserve of *Violets* two drams: *Oriental Bole-Armonick* one dram and half; *Mucilage* of *Quince* seeds extracted with half an ounce of *Rose Water*; with Syrup of *Quinces* make a Lick-pot, and let the Patient frequently lick thereof. And externally apply to his Neck such an Ointment as this following.

Take Grease collected from *Sheeps Wool*, the Marrow of a Leg of *Beef*, *Hens Grease*, *Goose* and *Ducks Grease*, of each half an ounce, *Mucilage* of *Marsh-mallow* seed and *Line seed*, of each six drams: *Oyl* of *Water-lilies* two ounces: *Saffron* ten grains: *white Wax* as much as will suffice. Make an Unguent washed in *Barley Water* or *Water-lilly Water*. Anoint his Neck three or four times in a day or night with this Ointment, and lay thereon moist or greasie Wool.

Observ. 15.

706. I come now to a certain filthy Scab of the Mouth with Ulcers of the Lips, which did put me to much trouble to discuss the same; but at last the Scab gave way to these following Remedies, and the Ulcers being healed never brake forth again. For they were so ill conditioned, that they seemed to reject all endeavor of Cure. Wherefore after universal Remedies, I used these following Topicks.

Take the Tendrels of *Vines*, *Leaves* of *Plantane*: *Woodbine*, *Thistles*, of each one handful: *red Roses*, *Barley*, *Lentils*, of each one pugil. Make of all a Decoction to a pint. In the strained Liquor dissolve juyce of *Pomegranates* and *Diamorum*, of each two ounces. With this Decoction we did bid the mouth should frequently be washed; and I caused the following Medicaments to be smeared upon the Lips.

Take Powder of red and white Coral burnt

and washed, *Harts-horn* burnt and washed, of each two bunces: *Bark* of *Bugula* one dram and half: With *Pomatum* and Syrup of dried *Roses*, make all into a Liniment. I am also wont for want of *Pomatum* to dissolve the Powders in white Wax melted, and fresh *Goats grease*.

Observ. 16. *A Rupture.*

707. Beyond the expectation of many I cured a Rupture of the Guts and Call, by these following Medicaments, without any help of the Chirurgeons hand. And that is most remarkable whereof I cured a certain German School-master at *Avenion*, in the year 1543, who had a Rupture in his Guts ten years together, which put him to very great pains when the wind was in the South. I caused him therefore to keep his bed a moneth together, and hold his Legs as close together as he could; that he should keep a drying diet, unless at the beginning of his meals he did eat somewhat boyled in Water and Sugar to keep his belly open; that he should eat no raw, windy meats, nor hard to digest, save the feet of Swine, Kids, and Rams. And he used these following Medicaments.

Take *Terra Sigillata*, great *Comfry* Roots, *Bole-Armenick*, of each two drams: *Burnt Harts horn* one dram. Let him take every morning for fourteen or fifteen dayes together, one dram and half, or two drams thereof in Capon Broth.

Take *Dragons Blood*, *Mummy*, *Mastich*, *Frankincense*, *Comfry* Roots, *Bole-Armenick*, red *Snails*, an *Hedgehog* powdered, of each one ounce. Incorporate all with *Turpentine*, and make thereof a Plaister to be applyed to the Groyns.

But you are to take notice that universal Remedies must go before, according as the Nature of the Disease shall require.

Observ. 17. *A dead Child.*

708. I was sent for to a Gentlewoman, who was grievously troubled with a continual Fever, and when she had been six moneths with child, her fruit was stilled in the womb through the vehemency of the Fever, which since by many and sundry Remedies it could not be driven out, at last with a Potion of *Myrrh*, *Chrysocola*, and *Hippocras*, and by applying to her belly a Pultis of *Coloquintida*, *Pennyroyal*, *Savine*, *Mugwort*, *Feverfew*, *Cats-mint*, after great straining of the Patient, the dead Child came away, to the great praise of our Art; for the Gentlewoman being in extream danger of her life, voiding the Child at last, she was freed from a most

a most violent Fever; howbeit six or seven moneths ago she fell sick of a most acute Disease and died.

Observ. 18. *Kings-evil Swellings.*

709. These Swellings are a frequent Disease, and hard to cure. The Daughter of M^r. *Claverius*, President of *Nemours*, was troubled therewith in her life-time. Wherefore having been by many Physicians and sundry Medicaments vexed, and being never the better, but her Disease growing worse and worse, her Neck was eaten with a scurvy putrid humor. At last I being sent for, and having prescribed fitting Purgatives I caused the *Emplastrum Charadicum* described by *Aetius* to be applyed thereto, after the Sanies was well prest out and wiped away. Every third day I caused a new Plaister to be laid on (the Ulcers being first cleansed, as hath been said) and this Plaister being four or five times repeated she was quite cured. And if the Kings-Evil Swellings are not ulcerated, I am wont to soften their hardness with the Powder of *Lapis Pyrites*, and *Diachylon Ireatum*, and then to open the Skin with a red hot Iron, or a Caustick Medicament, and with my fingers to press out the filth contained within; and lastly, I lay on the *Emplastrum Charadicum* aforesaid for three dayes (which must alwayes be observed) and this I repeat so often till I see the Cure performed.

Observ. 19. *A Double Tertian.*

710. M^r. *de Rancoigne*, Commander of the Garrison at *Bellicadre*, was wont every year in France to be troubled with a double Tertian Ague, for the space of two or three moneths. He being come into *Narbon* with our friend *Protomachus*, was taken a little after with the same kind of Disease, and sent for me to visit him. Being very sad, supposing that (as had been usual) he should be long vexed with this Ague, he desired me if I had any safe Remedy for a doubled Tertian, I would for his sake make use thereof. I told him by Gods help I would answer his desire if he would be advised by me. Having therefore given him a Clyster the same day, and the day after the Urines appearing at first somewhat crude, following the Counsel of *Avicenna*, after the second or third fit when the Urines were more coloured, I caused the Basilica Vein of his right Arm to be opened, and six or seven ounces of blood to be taken away. Mean while he used Preparative Juleps in the mornings, which being hardly finished, the Patient wondred that the following fit was little or

none, and that afterwards there was no sign of his Ague. Wherefore being extreamly glad that he was cured in so short a time, he perswaded others of his fellow Soldiers that were troubled with the same Disease (now it was in the height of Summer) to commit themselves to my care, who were all cured in the same manner.

Observ. 20. *A Sciatica Pain.*

711. That honest and good Soul *Antonius Clemens* of *Bellicadre*, was vexed with so vehement a Sciatica, that he was compelled to seek help of the Physicians of *Montpelier*, especially of M^r. *de Fegnes*, a Doctor of Physick, who at that time had gotten himself a great name for his rare dexterity in the Cure of Diseases. He could not assuage that bitter pain, neither by opening the Sciatica Vein, nor by Purging Pills, nor Diet Drinks, Cataplasms, Stoves, Plaisters, or Cupping-glasses, but it grew every day worse and worse, so that the Patient despaired of his life. But I upon the Irruption of the Protestants into *Nemours*, at the Iron Grates which received Fountain Water, flying by chance to *Bellicadre*, he sent for me to visit him. Having heard what M^r. *de Fegnes* had done, I caused Cantharides and old Leven to be applied to the pained place, whereupon blisters arising, and being opened, so great a quantity of wheyish liquor was voided, that desired ease followed thereupon, nor did the Pain trouble the man any more afterwards. Yet when the Sores caused by the Cantharides were healed up, I bid him for a time to apply to the part formerly pained a Plaister of *Diachylon* and *Melilot* Plaister, adding a little raw Sulphur, and a like quantity of seeds of Water-Cresses, or Sciatica-Cresses.

Observ. 21. *A Sordid Ulcer.*

712. It is not long since that the Earl of *Tanten*, a man most renowned for Nobility and Excellency of Body and Mind, lately dead of an Ulcer in the Lungs, was troubled with an ill conditioned Ulcer in his left Leg, which could not be by any means healed up. He being exceedingly studious of Antiquity; and sending for me to interpret a certain Inscription upon an old Coin: after many discourses of this and that, he intreated me if I had any thing that would heal the ulcer in his Leg, that I would impart the same unto him, for he had tried this and that, and nothing would do, so that he thought it was incurable. Now I could not deny my help

and advice to such a man as he; wherefore if you will (said I) be advised by me, you will shortly be restored to your health. And therefore I began, after universal Remedies, and a convenient diet prescribed, to appoint him this following Liniment, whereby in twelve or fifteen dayes the Ulcer was quite cured. Mean while I would have him use this following Syrup at times for fifteen dayes, to hinder the Ulcer from breaking forth again.

Take *Shavings of Guajacum half a pound; infuse them in twelve pints of the Water of Rhodanus, then boyl half away; at the conclusion add Polypody of the Oak four ounces, Carthamus seeds three ounces, Turbitb one ounce, Agarick half an ounce, Cinquefoyl Roots four drams. To the strained Liquor add Honey of Roses, and red Sugar, of each one pound: Clarifie the Liquor, and Aromatize it with half an ounce of red Sanders. Make it into a Syrup half boyled.* Hereof he took five or six ounces once in three or four dayes. When it did not work sufficiently I added Senna. The Ulcer was frequently washed with Allum Water, The form of the Liniment was this following.

Take *Hogs Grease three ounces; Goats Grease two ounces; Henbane Leaves roasted under the Embers and well beaten with the Greases one handful; Lead burnt and washed, Antimony, red Lead, of each two drams. Mix them in a Leaden Mortar, and make all into a Liniment, adding a little Opium when the pain is more than ordinary.* Afterwards when it was long ere a Scar would be drawn over, I caused a Plate of Lead to be steeped in Vinegar three dayes, and then dried and powdered very fine, and sprinkled upon the Ulcer, and another whole Plate to be laid over the same; and so I attained my desire, to my great Commendations, not to speak of the Reward which I received.

Observ. 22. *A Caruncle in the Yard.*

713. A certain Augustine Friar called *Ambrosius*, having a bit of flesh growing in the Neck of his Bladder, was exceedingly tormented when he made water, and sought help of many to take the same away, for the Disease had taken root now these five years, and his pains growing daily more and more, though he used powder of Savine, which he conveyed in with a Wax Candle, and other Medicaments which he had got here and there; by chance he met me, being almost mad with pain: I cannot (quoth he) abide long in a place, and I am ready to make away my self, so grievous is the pain wherewith I am tormented. I, moved with Commiseration, en-

deavoured with gentle words to assuage his distempered mind, and told him there was hope of his Cure, provided he would keep a good diet, and follow my directions, which (his pain being a little asswaged) he promised to do. I advised him therefore to wear a Leaden tent or wire in his Urinary passage continually, endeavouring by little and little to cause it gently to pass into the neck of his bladder; and that he should begin with a small wire or plummet, and so arise to a greater, till the passage into his Bladder was open, and that he was to continue the use hereof a long time together. He therefore keeping (as I bad him) a Leaden plummet in his Urinary passage day and night, told me he felt so much good thereby in the space of fifteen dayes, that he could make water freely and without pain; and the passage of his Urine was so open, that he needed no longer any Medicaments to cause him make water.

Observ. 23. *Semitertian Ague.*

714. I was called to the Cure of a Semitertian of *M^r. de Rage*, Treasurer of *Nemours*, with *Dr. Ferrandus*, and *Dr. Castellanus*. And when we came into Consultation, *Dr. Castellanus* asked me in the first place, what I thought of the Patients Disease, because I was the first that had visited him? I answered ingeniously, That he was troubled with a Semitertian, And that therefore he stood in need of the best and most speedy Remedies. For every third day the Ague came with shaking, and after the Sweat which followed the Ague, he was not quite free from Feaverish heat. *M^r. Ferrandus* did eagerly oppose my Opinion, being of a disposition apt for contradiction; and he said that a vacancy from Feaverishness might be perceived betwixt the two fits, and therefore it was only a notable bastard Tertian. On the other side I resolutely affirmed, That there lay secretly concealed a continual Quotidian; and I added, That if the Feaver or Ague were a Bastard one, that it would not cause so great watchings, nor fainting; and moreover, that a Semitertian comes in the Autumn oftner than at any other time in the year, at what time our Patient was taken ill; and finally, That this Disease chiefly seized upon great Feeders such as this Patient was; and I cited the Testimonies not only of the most excellent Physitians but also of Martial.

'Tis not well said that our Tongilius With Semitertian Ague vexed is, Whose abstinence from meat and drink I know.

And

And again in the end of his Epigram.

*All his Physitians bid Tongilius bathe :
O Fools to think a Feaver's his Disease,
Whiles it is Gluttony.*

Yet M^r. *Castellanus* having questioned us, and heard both our opinions, took part with Dr. *Ferrandus*, and turning himself to me, added these words : It ought not to seem strange (quoth he) that a certain small Feaver follows the Tertian Ague ; for this being a Bastard Tertian hath very much thick flegm mingled with the choler, in which respect the fumes arising therefrom do continue the longer ; pertinently alledging that example of *Galen* in his Book of the difference of Feavers, concerning green Wood which is hard to kindle, and when the flame goes out, for a long time a thick smoak arises, which does not happen in dry Wood ; and therefore (sayes he) since the way of Cure is not much different in a Semitertian and a Bastard Tertian, let us resolve presently to let blood. Moreover, though all these things were done and Epithemes were applied to strengthen the Heart, and many other Remedies administered according to Art, the Patient died three or four dayes after. And when M^r. *Castellanus* heard of his death, he changed his Opinion, and said that a true Semitertian had killed the Patient : yet Dr. *Ferrandus* would not bate an hairs bredth of his former Perswasion.

Observ. 24. *A Polypus.*

715. The Wife of a Scrivener of *Urgen*, was deformed by a Polypus, and she was troubled because the Chyrurgeons contended with the Physitians that it could hardly be cured without cutting. Coming therefore to me, after I had appointed her a convenient Diet, and prescribed a Purgation, I caused *Vigo* his Medicament to be applied to the original of the Nerves, and that the Polypus should be anointed with this following Oyntment.

Take *Pomegranate Rinds*, green *Galls*, of each one dram and half ; tops of *Savine* dried and powdered two drams ; *Chalcitis* or red *Vitriol* burned one dram and half ; *Allum* burnt, and *Hermoadalyls*, of each four scruples. This with *Egyptiacum* Oyntment was applied to the Polypus. Mean while that this was used, the neighbouring places were anointed with the Oyntment of *Bolus*, or of *Litharge* with *Juyces*, to stop the influx of Humors. Then,

Take *Lead* burnt and washed one dram and half ; *Rind* of long *Gourd* burnt one dram ; *Antimony*, and *Lapis Calaminaris* diligently washed, of each four scruples ; *Shells* of *River* or *Sea*

Crabs one dram and half ; *Tutty* prepared two drams ; *Juyce* of *Plantane* and *Nightshade* clarified, of each one ounce and half ; *Oyl* of *Roses* *Omphacine* four ounces. Work them together a long time in a *Leaden Mortar* with a *Leaden Pestle*, adding *Juyce* of *Pomegranates* one ounce and half. The place was now and then washed with *Allum Water*, and without the hand of the Chirurgeon the Polypus was soon rooted out.

Observ. 25. *Pustules of the Face.*

716. Some Diseases we meet with, which though they are neglected as of small moment, and Physitians are seldom consulted for their Cure ; yet in regard of their troublesomeness and pertinaciouness, they are not to be contemned. It many times falls out as it did lately in a certain woman, who could not by any Remedies take away the redness and Pimples of her Face like those rubies that enrich the Noses of *Toss-pots*, whereby she was deformed ; although she had had the advice of famous Physitians to that intent. I prescribed her a cooling and moistening Diet, opened her Liver Vein, caused her to take three dayes together a purging Opiate to void adust Humors, encreasing the dose thereof by little and little, and then I made her wash her face with this following Water.

Take *Tops* of *Myrtles*, *Rind* of *Pomegranates*, *Leaves* of wild *Olive Tree*, *Finger-fern*, *Plantane*, *Morellus* which is a sort of *Night-shade*, *Tendrils* of the *Vine*, of each four handfuls : *Sour Grapes* with their stalks two pound : Cut them. Sprinkle them with *Vinegar*, and still them, reserving the distilled Water for your use.

Take of the foresaid Water four ounces : burnt *Allum* two drams : whites of Eggs well beaten one ounce. Apply them to the Face when she goes to bed, and let her often wash her Face with the foresaid Water. Afterwards,

Take *Tutty* prepared, burnt *Ceruss*, of each two ounces : *Litharge* one ounce : *Juyce* of *Plantane*, the foresaid distilled Water, of each a sufficient quantity, *Oyl* of *Myrtles* two ounces : *Oyl* of *Yolks* of Eggs one ounce. Incorporate them together, and bring them to the form of *Unguentum Nutritum*, add *Chalcitis* three drams : *Allum* two drams : *Sulphur* one dram : *Juyce* of *Citrons* one ounce and half. Apply it at nights, and in the morning wash her face with the forestilled Water. If it had not gone away with these Medicaments, I had added one ounce of *Quick-silver* or more ; but the redness and pimples all vanishing, there was no more to do.

Observ.

Observ. 26. *The Disease Cholera.*

717. In the Year (if I mistake not) 1564. before the Plague broke out in *Nemours*, there was rise the Disease called *Cholera*, killing many in four dayes space. Yet those that sought help at first, were all in a manner cured by this following Method. In the first place, When I conceived the Patients had sufficiently vomited, that they might not be over-weakned, I gave them Marmalade of Quinces aromatized, if the Feaver were not very intense, but if it were intense I gave them simple Marmalade morning and evening two hours before meat in a silver spoon, and forbade them to use any Drink, although the Patients were tormented with an unquenchable thirst, because Drink did encrease their vomiting and looseness, whereupon death followed unavoidably. I cured the Numbness and Convulsions of their Legs with Oyl of Chamomel hot; and to help the Vomiting and looseness, I applied Embroches of Oyl of Nard, of Mastich, and of Quinces, wherewith their whole bellies were anointed, and then I sprinkled thereon Powders of Coriander prepared, of Roses, of Mastich, of Mints dried, of Citron peels dried, Lignum Aloes, Laudanum, Nutmeg, the two Corals, and such like. Also they took an Opiate of Conserve of Roses, Myrobalans preserved, Powder of Pearls, red Coral, and Ivory, with Syrup of Quinces, and our Corans. Sometimes if the Patients were strong, I gave them at the beginning of the Disease Rhubarb in the substance, not neglecting Cordial Epithems. The same kinds of Medicaments I used in Children which were wasted with this kind of flux, or the melting flux so called, especially in the Summer time; I advised sometimes Clysters partly strengthening, partly nourishing, and all in a manner recovered through the mercy of God.

Observ. 27. *Pain of the Hemorrhoids, and falling down of the Fundament.*

718. A certain man of the County of *Venayssin*, was tormented with a grievous pain of his Hemorrhoids, which would not give way to any usual Pain-swagers, viz. Fomentations of Mallows, the Hemorrhoidal Herb, flowers of *Tapsus Barbarus*, Chamomel, Oyntments of Butter, new Suet, Hens-grease, Oyl of Lin-seed, and a thousand such like. Wherefore his Appetite being lost, and not being able to sleep, his forces were much impaired. Nor could the end of the Clyster-pipe enter his Fundament, the Hemorrhoidal Veins had

so swoln the neighbouring parts. And therefore it was that he had no stool in eight dayes time, although he had twice taken *Callia* new drawn. Bnt at last being advised by a certain learned German that went that way, having reiterated many Fomentations of emollient things, I caused an Oyntment to be made of the juyce of Herb Two penny and fresh Butter, wherewith I anointed Tents, and put them in leisurely, and so asswaged the pain. Whereupon the Patient presently fell asleep, and his Appetite was restored. The same Patient a little after had his Fundament fallen out, which was cured with this Remedy, and never fell out again.

Take Oyl of Mastich a sufficient quantity: Boyl therein eight Beetles (Bugs or Flies so called) and then anoint his Fundament with this Oyl, and sprinkle thereon the Powder of Egg-shells, out of which Chickens have been hatched. The same German told me that also the juyce of Herb Purple or Moth-murren, does wonderfully mitigate all the pains of the Hemorrhoids.

Observ. 28. *The melting Feaver.*

719. Mr. *Richerius* the Kings Counsellor or *Nemours*, was taken with a sudden and most grievous pain in the lower part of his Back betwixt the Kidneys, as he was busily employed in his Garden, which was near his House; and being not able to stand for pain, but fain to keep his bed, he began to be Feaverish; and yet was oppressed with no thirst, because the Feaver was not very violent; moreover, his head did not ache at all, and he slept well enough. The day following his whole body was wet with Sweat, which was not procured by any Medicaments, but brake out of its own accord, whereby the pain of his back was allayed. But from that day forward he did sweat much more plentifully; so that a man would have thought it came out of some Springs scituate in several parts of his body. And this held till the ninth day, for it could not be suppressed by any Powders made to stop immoderate sweating, no nor by frequent fanning of the cold air upon the Patient, nor by throwing aside the coverlids and blankets; nor by opening the Windows, that the wind might have free passage into the Chamber; but his forces decaying by little and little, while he was speaking and ordering the Affairs of his House, he was prevented by sudden death, no other symptoms being joyned with the sweat. Now although we used both Clysters and Purgative Medicaments, that we might recal the Motion of Nature

Nature from the Centre to the Circumference, back again from the Circumference to the Centre: yet all our Remedies were in vain, nor could we ever free the Patient from this so great flux of sweat. Not to speak of the Diet we appointed him of solid and clammy meats, lest by eating meats moist, subtile, and much nourishing, they should also speedily pass through the Skin as *Hypocrates* says And therefore all Physicians were joyntly of opinion that this was that kind of Feaver which *Galen* calls *Elodes* or *Typhodes*. For in that kind of Feaver says he, the Patients are little or nothing holpen by sweat, and for that cause it is reckoned to be for the most part mortal. Observe that the sweat came not hot till the very last day, and then it came exceeding cold.

Observ. 29. A Palsie.

720. I cannot pass over in oblivion the compleat Palsie of a Gentlewoman, the Mother of Mr. *Feavers* of *Nemours* a Lawyer, my most dearly respected Friend; which Gentlewoman was then about sixty four years of age, Who a little before the setting of the *Pleiades* or Seven Stars, fell suddenly in the evening into a Palsie of her right side; so that she could neither distinctly speak, nor had she the power of sense or motion in her Limbs on that side. Moreover she was exceedingly heavy in her head, and enclined to sleep. Now because her belly was bound, a Clyster was presently injected, partly of Emollient, and partly of Cephalick Herbs: in the straining whereof was dissolved the *Hiera picra* of *Nicolaus* with *Diaphœnicon*, Oyl of Chamomel, and *Mel Anthosutum*, or Honey of Rosemary flowers, which she voided after an hour with much dung and flegmatick Excrements. At midnight I caused her to swallow seven Pills of *Pilula Fœtidæ* and *Cochiæ*, with three grains of Trochisks of Alhandal made up with Syrup of *Stœchados*, which about morning brought forth so great a quantity of thick and clammy flegm, that the heaviness of her head, and sleep seemed in much measure to be abated. On the third day she took an Apozeme made of Galangal Roots, Calamus Aromaticus, Betony, Bawn, Chamepitys, Sage, Hyssop, and others of this sort, with Oxymel of Squills, whereof she took four doses for the four ensuing mornings; after which having taken again the foresaid Pills she was somewhat better. Yet she was not able to stir so much as her little finger on the side affected. After these things were done, certain stotty excrements of her Brain were voided at her Nostrils and Mouth by the use of Errhines and Apophlegma-

tisms; but three dayes after she used a Diet Drink of Guajacum morning and evening, whose strained Liquor was aromatized with Powder of Nutmeg (whereof she always held a bit under her Tongue) and sometimes with *Diamoschu dulce*. And having drunk this Drink with the second Decoction for the space of twenty five dayes, her palsied Members had recovered some sense, and could stir a little, obscurely. But after she had used Stoves to procure sweat, wherein many red hot stones were quenched in a Decoction of Bay-leaves, Lavender, Bastard Spike, flowers of the two sorts of *Stœchados*, Chamomel, Maiden-hair; sweat was provoked, and she was anointed with hot Oyntments of Martiatum, Opopanax, Oyl of Castoreum, of the Peppers, Oyl of Foxes, and other such like, all over her Back-bone and the Members affected, she totally recovered her health. Not to speak how I appointed her to keep a drying Diet all the course of the Disease. By this Method I have cured many that could not speak nor stir their Limbs.

Observ. 30. Hypochondriacal Melancholy.

721. This Disease is not very frequent but yet hard to cure, whose malice is hardly discovered in the continuance, and therefore the common people for the most part mock those that are troubled therewith, saying that they do ill pretend themselves to be sick, seeing they can eat and drink, and follow their business like persons in health. And yet they are sundry wayes vexed, both because they cannot sleep a nights, and their Ears are deafned with ringings and noises proceeding from vapors arising from their Stomachs and Hyponchondries; many are frightened, have tremblings of their Hearts; some mutter to themselves as if they were distracted, and being weary of their lives, devise many wayes to destroy themselves; some are troubled with murmurings and rumblings from their Hypochondries with much and frequent spittings; some feel an heat in those parts, as if they were inflamed, In a word, they are vexed with such a Concourse of bad Symptoms, that the most exercised Physicians have enough to do to vanquish their obstinacy. Now this Disease is by most renowned Physicians called Hypochondriacal Melancholy, wherewith a certain learned Franciscan Fryer named *Pibris* was long vexed, though otherwise of a good habit of body and flourishing age. And by this means he was many times forced to leave the Pulpit wherein he preached, being taken

taken with a sudden trembling of heart and darkness of his sight. Now he had been troubled (as he said) with wel-nigh all the foresaid Symptoms for three or four years, and found no good by all the Remedies prescribed by the Physicians of *Tolouse* and *Montpelier*. Wherefore he exceedingly intreated me to add my Advice to the rest, although I might differ from them in opinion. I answered (having seen and examined some sheets of Paper) that I was wholly of their mind; and yet I should very willingly appoint for him such things as by long experience, not only in others, but in my self also when I was a youth, I had happily made use of. For it might fall out (said I) that among so many and so considerable Remedies lately practised, they might do good, especially since my self being troubled with the same disease, I had been through Gods goodness long since cured. Wherefore giving ear to my words he took courage, and perswaded himself that by my help he should be freed from so great afflictions. Nor was this perswasion of his in vain, for by the use of the Remedies by me prescribed in the space of two moneths he recovered his wished health. Wherefore I prescribed him a convenient Diet, enclining a little to a cold and moist temperament, such as are Broths of Capons flesh, of Weather Mutton, and Kids flesh, made with Borrage and a little Lettuce; all fat Partridges, Thrushes and Quails, and other such like Birds moderately roasted, with small Wine allayed with store of cleer Water void of tast, and Claret Wine. But I forbade him the use of all kinds of Cheese, and of all such things as breed thick blood and melancholy, and willed him to banish all passions of his mind which might induce sadness and fear. Also I bad him to use this following Clyster twice a week, though he were not Costive.

Take Broth of a Weathers Guts, as much as will suffice; boyl therein Mallows, Bears Claw, Borrage, of each one handful; the three Cordial flowers and Chamomel flowers, of each one pugil: Raisins stoned twenty pair; In one pint and half of the strained Liquor dissolve Cassia with Sugar and Catholicon, of each six drams; Oyl of Violets three ounces; red Sugar one ounce. Mix all into a Clyster. Also I caused him to take a quantity of this following Purgative Electuary every eighth day.

Take Pulp of Raisins and Sebestens, of each one ounce: Cassia new drawn and Catholicon of each one ounce and half: With Syrup of Violets make all into a soft Electuary, whereof let him take ten drams, or almost one ounce and half at five a clock in the morning, in a strained Decoction of Bugloss, red Vetches, Raisins, Liquoris, and Cordial flowers. Also sometimes I caused him to

take the Pulp of Cassia alone, the quantity of one ounce rouled in Sugar. Nor would I allow him to use strong Purgations, lest the morbidick matter being exagitated, should rage more and more; because when it is overmuch provoked; it rages more violently, and the vapors thereof ascending into the head, cause watchings and ringings in the Ears, also the Palpitations of the Heart are thereby made more troublesome; so that it would be an hard matter to assuage the fierceness of the Symptoms. Three or four dayes after he had taken the Electuary, I prescribed him an Apozeme of Endive, Borrage, Maidenhair, Raisins, Liquoris, which he was to take as to day, and to repeat his purging Electuary to morrow, after the repetition whereof he was much better, viz. a good part of the adust and melancholick humor being by little and little purged forth. And a few dayes after I caused him to enter into a bath of fair fresh Water luke-Warm in the morning fasting, and after he had been at stool, wherein he was to abide an hour and half without sweating. In the Bath were boyled Mallows, Violet Leaves, a few Leaves of Lettuce (for the beginning of Summer was at hand) and Borrage. Now this Bath was continued five or six dayes. Whenever he was bound, the foresaid Clyster was given him. And these things being done he was much amended; viz. his sleep returned, his trembling of Heart was allayed, and finally the absurd Imaginations troubling his mind were extinguished. And whereas there remained some ringing in his Ears, Oyl of Asset, Cucumer with a little Castoreum being dropt into his Ears, the winds were discussed. Now to remove the reliques of the Symptoms, he took half an ounce of the following Cordial Electuary, whereby he was totally cured of his dangerous Infirmities.

Take Conserve of Violets, Borrage, Bugloss, Finger-fern, of each one ounce and half: Raisins of the Sun stoned one ounce: Citron peels preserved three drams: Confectio Alkermes two drams: Powder of Oriental Pearls one dram. With Syrup of Apples simple, make all into an Opiate. Finally, I advised him to frequent the company of pleasant persons. I forgot to tell you, how after Purgation his left Hypochondry was fomented with a Decoction of Mallows, Tamarisk, Chamomel flowers, Germander, Capar Koots, Finger-fern, Agnus Castus, Harts-tongue, Smiths Forge-water being added thereto, for his Spleen did seem to swell.

Observ. 31. Mother-fits.

722. Women are frequently troubled with Suffocations of the Womb, which endanger their lives; especially such as have their Courses by any means stopped, or for modesty and Honours sake live a single life without the company of Men. From which fits some are hardly recovered, and others can by no Art be restored to their former health. Wherefore I shall willingly take the pains to set down some of the most effectual Remedies against this dangerous and preposterous Disease, where-with I have restored some to health when they were almost dead. In the first place therefore, after Clysters, to void the excrements and wind, with such things in them as respect the Womb, such as Mugwort, Feaverfew, Catmint, Stœchados, Chamomel, Anniseeds, Cummin-seeds, Fennel-seeds, Bay-berries, with *Hiera Nicolai*, Diacatholicon, Oyl of Rue, and such like things; not omitting afterwards to apply Cupping-glasses to their Bellies, to warm the Lower parts by rubbing, to put stinking things to their Noses, and to burn or smear sweet things beneath, as *Gallia moschata*, Benjamin, Storax: the day following I gave them Pills of *Hiera Nicolai* or *Ruffi*, if their strength will give way. But if the Symptome is so urgent that we cannot stay for the working of Pills, a Plaister must be applied to the Navil, of Asphaltum, or Oyl or Jeat must be anointed thereupon in a small quantity. Then a Potion must be given of a Decoction of Mugwort, wherein choice Camphire divers times set on fire hath been quenched. But if this will not raise them out of their fits, they must be forced to open their mouths, and if their Jaws be so fast closed (as many times it happens) that there is no entrance for any Drink, they must be opened with a piece of Wood, or an Iron Instrument made for that purpose, and one dram of Powder of Bean-Trefoyl with Mugwort Water must be powred in; for I have by this Remedy raised many that were half dead. Finally, when the fit is over, if stoppage of the Courses caused the fits, they must be provoked by letting Blood in the Saphena Vein, and by such Medicaments as provoke the Courses given at the time when they were accustomed to come. Some Women wear instead of an Amulet about their Necks, Quick-silver inclosed betwixt the shells of an Hazel-Nut, to free themselves from this so grievous a Malady.

Observ. 32. An Ulcer with Worms in it.

723. A certain Gentleman of *Urgen*, of a good Family, being troubled with an ill-conditioned Ulcer in his Leg, I know not whether through neglect or bad handling, it was become so putrified, that it crawled with an innumerable company of Worms, so that no Remedies that we could devise would kill or rid them away, but encreasing every day more and more, and eating the flesh under them, they caused intolerable pains. I forbear to relate how the juyce of Centaury, Wormwood, Arsemart, yea Lime and Verdigrease, and a thousand other things were used, but to no purpose: And therefore I thought there needed the hand of the Famous Chirurgeon *Chiron* instead of mine, both to remove the Worms that stuck close to the flesh, also to extirpate and heal up that same prodigious Ulcer. Wherefore thinking with my self what was to be done against those abominable Worms, it came suddenly into my mind, how a Shepherds Dog bitten by a Wolf in his Thigh, and troubled with such Worms, having some Agrimony tied about his Neck, the Worms (whereof the Ulcer was full) fell away in abundance. Seeing therefore the good success which followed the use of that Herb, I judged by the Rule of Analogie, it might work the same effect in this man as in the Dog, although I knew the temper of the Dog was different from the mans temper. In Imitation therefore of the ancient Physitians, I resolved to transfer the use of this Remedy to the man; nor did this experiment fail my expectation; for partly by putting the juyce thereof into the Ulcer, and partly by wearing the Herb about his Neck, I saw the Worms fall away by Clusters, not without the extream admiration of the Chirurgeons and Friends of the Patient who stood by; since not by any manifest quality, but by I know not what hidden propriety (no bitter, biting, or sower things, having done any good) it chased away so great a Plague. Wherefore the Ulcer being diligently cleansed (as was fitting) and flesh being restored with flesh-breeding Medicaments, and the skin hardened with Scar-breeders, the man shortly recovered, and afterwards used the same Medicament, especially in Cattel troubled in like manner, which (as he hath told me) always took effect.

Observ. 33. A Dropsie from du hor Distemper.

724. A Gentlewoman of *Nemours* being grievously

grievously troubled with the Dropſie *Aſcites*, though ſhe kept a good Diet, and drank very little, yet her Belly and her Thighs alſo grew ſo great, that ſhe could neither fetch breath nor go. And whereas a few days before ſhe had taken Apozemes, Opiates, and certain Decoctions preſcribed by Dr. *Schironius*, after which her Belly and Legs abated a little of their ſwelling: yet falling again into her fault of drinking, her ſwellings encreaſed, and her ſhortneſs of breath was augmented. Wherefore all things being related to me in order which had been done to her, having ſeen her water which was red, I judged that her Liver was not only troubled with an hot diſtemper, but that alſo there appeared ſome beginnings of an Inflammation, which occaſioned ſo hard a ſwelling in her right Hypochondry. Having therefore given and applied ſuch things as correct an hot diſtemper of the Liver, I cauſed a Cataplaſm to be laid to the Region of her Liver, charging her by any means to drink no kind of Liquor, becauſe her thirſt was but thereby encreaſed, according to that of *Ovid*,

Water the more you drink, the more you may.

The Cataplaſm was this:

Take Crums of Meſline-Bread one pound; Dates cleaſed from their ſkins and ſtones, twelve pair; Figs, Raiſins with their ſtones, of each ten pair. Boyl them in Water and Vinegar till they grow ſoft. Then force them through an Hair-Searſe: add to them *Schananth*, Myrtle, Spike, Sanders white and red, red Roſes, of each two drams; Oyl of bitter Almonds, of Nard and Wormwood, of each three ounces. Make all into a Pultiſs, and apply it to the Region of the Liver luke-warm in the morning three hours before dinner. When this Pultiſs or Plaiſter if you will, had been applied ſix or ſeven daies, both the Tumor began by little and little to abate, and all the Symptoms to be aſſwaged. Which being done, I ſet my ſelf to diſcuſs the wheyiſh humor, to which end I uſed a Pultiſs made of ſcrapings of Leather newly prepared with Lime, boyled only in water to a Gelly; for they have an excellent faculty both to expel wind, and to draw out the wateriſh humour, as I found by experience in this Woman; for after the third or fourth anointing (her Liver being fenced with Oyntment of Roſes, and *Ceratum Santalinum*) her Belly was wholly fallen, and ſo by the frequent uſe of an Opiate made of Conſerve of Flowers of Tamarisk, Cichory, Finger-fern, Maiden-hair, of each one ounce; Preſerved Citron-peels, Conſerve of Smallage-Roots, of each half an ounce; Powder of *Triſantalon* two drams; Trochiſks

Diarrhodon, de *Eupatorio*, of each one dram, ſhe recovered her deſired health.

Obſerv. 34. *Eryſipelas*, *Herpes*, and *Lichen*.

725. Madam de *Colias*, the Wife of Mr. *Albenafius* a Judge at *Nemours*, many times whiles ſhe was in her conſiſtent age, was troubled with a true *Eryſipelas* which poſſeſſed her whole face; but when ſhe grew in years, at the time when the *Eryſipelas* was wont to come, her whole face was diſfigured with a kind of *St. Antonies Fire*. Moreover, this *St. Antonies Fire* did trouble the Phyſitians very much, for neither by Blood-letting (for the Woman was plethorick) nor by purgation, nor by external Remedies, could the Ulceration be ſtopped. But after the uſe of ſeveral Oyntments one after another, with this following ſhe was at laſt perfectly cured.

Take Oyntment of *Litharge* one ounce: Quickſilver killed with juyce of Lemons half an ounce; Tutty prepared three drams, *Cerus* and *Lapis Calaminaris*, of each two drams; Roſe-water and Vinegar of Roſes, of each one ounce and half. Work them all together in a Leaden Mortar with a Leaden Peſtle. After her *St. Antonies Fire* was cured, ſhe complained to me of certain Tetters which came every year of courſe, and took ſuch rooting that they could not be got away under ſix moneths ſpace. This following Liniment did take away the ſaid Tetters in the ſpace of three or four dayes.

Take Liquid *Storax*, Oyl of Roſes compleat, of each half an ounce: Stir them and work them together in a Mortar, till they be very well mixed, and with them ſmear the Tetters morning and evening. Alſo the Water of Turnſole or Wart-wort, the Herb ſo called, is very good againſt Tetters.

Obſerv. 35. *Chaps* of the Dugs, and Rankneſs of the Arm-pits.

726. A certain Gentlewoman of *Nemours*, after ſhe was brought to bed, was alwayes troubled with an extream pain in her Nipples, by reaſon of certain Ulcers which could not be dried neither with Oyntments nor with Lotions, much leſs could the pain be aſſwaged. Asking my Advice therefore what courſe ſhe ſhould take againſt ſo troubleſome a Malady, I adviſed her, that hereafter when ſhe was with child, a moneth before her lying down, ſhe ſhould frequently waſh her Nipples with the diſtilled Water of Red Poppies, which having done, the next time ſhe was with Child of a Boy, ſhe had none of thoſe

those of Ulcers afterwards, and this Remedy many Women in the like case did afterwards use to their great profit. Now as she was shewing me her Nipples, a rank smell proceeded from her Arm-pits, whereupon she earnestly intreated me, that if there were any thing that could take away this grievous stinking smell (which makes men loath Women) that I would acquaint her therewith. Whereupon anointing her Arm-pits by my Advice, with an Oyntment made of Powder of Litharge of Gold, and Vinegar of Roses, the stinking smell was quite suppressed.

Observ. 36. *A fierce Catarrh, a sore Mouth, and danger of a Phthisis.*

727. A certain Woman of *Urgen* was so vexed day and night all the Winter long with a thin and sharp distillation to her Breast, that being perpetually vexed with coughing and hawking, she was forced to sit continually; nor would her distillation give way to Evacuations, Revulsions, and Diversions by Cupping-glasses; hence proceeded loss of Appetite, want of Sleep, crudity of her Stomach, which made her so lean that she was in danger of a Consumption. Wherefore the following Electuary having reduced her sleep, and a Plaster being applied to the Coronal Suture of her head made of Ammoniacum, Frankincense, Mastich, Nutmeg and Nigella seeds toasted; her Cough was allayed, and her appetite restored by little and little, so that she gained her former health. Now the Opiate or Electuary was thus made:

Take old Conserve of Roses half an ounce; Diacodion with Sapa two drams; Powder of Diatragacanthum one scruple. Make thereof an Opiate to be held betwixt the great Teeth and the Cheeks when she lies down to sleep. And because this sharp distillation raised sores in her mouth, for their Cure she used this following Remedy by me prescribed.

Take Thistle Leaves, Woodbine or Honey-suckle Leaves, of each one handful; whole Bar-

ley one pugil. Make of all a Decoction to eight ounces. In the strained Liquor dissolve juyce of Pomegranates that are sweet-sower two ounces; mix them. With this Decoction she frequently washed her mouth, and in a short space of time, the Ulcers which did abound therein were healed. But a few dayes after the Disease getting head again, I was forced to smear the Crusts of the Ulcers with Oyl of Mercury, whereupon they soon fell away; nor did any sign of them appear afterwards.

Observ. 37. *Sower Belchings.*

728. A Councillor of the Kings named *Chef de Bien*, the adopted Son of *M^r. Chef de Bien* his Majesties Treasurer, was at *Montpellier* for a long time troubled with sower Belchings, and having there used many Medicaments internal and external to no purpose, yea, finding himself daily to grow lean, because he had no appetite, and the nourishment was daily drawn away from his body: at last he be-thought himself to go to some other place for change of Air, and so he went speedily to *Urgen*; whither being come, and meeting me accidentally, he told me the occasion of his coming; whereupon I willed him to be of good cheer, and not to despair of his Recovery (for he was perswaded that he should hardly ever be perfectly cured) for his Disease was not so hard to cure, but that he might be freed at the expence of an half-peny. And whereas at first he gave little credit to my words, I perswaded him at last to swallow five or six whole Pepper Corns in the morning fasting five hours before Dinner. Which having done three or four dayes one after another, he was not troubled with any shadow of sower Belchings; and whereas before his appetite to meat was exceedingly dejected, his stomach was hereby so strengthened, that he did afterwards eat his meat lustily, whereby his whole body was refreshed, and the consumed substance thereof was repaired.

The End of the Fourth Century of the Observations of Riverius; with the Additional Observations.

A Physical Dictionary,

Expounding such words, as being Terms of Art, or otherwise derived from the Greek and Latin, are dark to the English Reader.

This Dictionary is of Use in the Reading of all other Books of this Nature in the English Tongue.

A

A *Pophlegmatism*, Medicines drawing flegm out of the Head.

Agarick trochiscated, See the *London Dispensatory* in English.

Apozeme, A Medicine made of the Broth of divers Herbs, and other Ingredients; unto which sometimes certain Syrups are added.

Animal Faculties, The Powers of Hearing, Seeing, Smelling, Tasting, Feelings, of Imagination, Understanding, Memory, Will, Going, Standing, and all Voluntary Motion.

Aranea Tunica, The Cobweb-Coat, or Tunicles.

Abdimen, The Belly, or Paunch.

Apoplectick Water, Good for the Apoplexy.

Autumn, Harvest, the Fall of the Leaf.

Actual Heat, Is heat that may be felt by the hand, such as is in Fire, and all things heated thereby; or in the Body, of one in a Fever: It is opposed to *Potential Heat*, viz. That cannot be felt by the hand, as heat in Pepper, in Mustard-seed, in a Flint, in unflaked Lime; and the contrary of *Actual Cold*.

Affected, Troubled, Diseased: and *Affect*, a Disease, Trouble, Disorder.

Aqua Acidula, the Spaw Waters, like those of *Epsom*, *Barnet*, and *Tunbridge* with us.

Absurdities, Unreasonable Things.

Acrimony, Sharpness, such as in Mustard, Pepper, and in divers humors of the Body which cause sickness.

Ascent, Going up.

Apply, Lay on.

Actually Cold, See *Actually Heat*.

Augment, Encrease.

Accidentally, By hap, by chance, upon occasion.

Adventitious, not Natural, but springing from external Causes.

Attracting, Drawing together, or causing.

Attract, Draws to.

Accident, Something that happens upon a Disease; vide *Symptome*.

Adstriction, Binding together, shutting up.

Antecedent Cause, Foregoing Cause is opposed to the *Conjunct Cause*. Abundance of Flegm in the Body is the Antecedent Cause of the Optick Nerves being stopped by Flegm; but the Flegm in the said Nerves, is the *Conjunct Cause*, &c. of other Diseases.

Articulate Voice, A distinct Voice, such as that of Mankind, termed Speech.

Abturgent, Cleansing away filth.

Access, Addition, joyning to, help, or company.

Afflux, Flowing to.

Astringents, Medicines that bind together, and straiten the Pores and Passages of the Body.

Astriction, Binding, knitting together.

Anodines, Medicines which assuage pain.

Anastomosis, An opening of the mouths of veins, by which means Blood issues.

Astringe, Bind, fasten, close.

Acute, Sharp, violent. A disease is termed *Acute*, when it quickly changeth to health or death.

Adustion, Burning; *Adust*, burned. Blood is said to be *Adust*, when by reason of extraordinary heat, the thinner parts are evaporated and the thicker remain dreggy and black, as if they were burnt.

Asthmatical, Troubled with shortness of Breath.

Attest, Witness, declare.

Aneurism, A swelling caused by a dilation of the Arteries external Coat, the internal being broken.

Axungia, Grease.

Atrophy, Want of nourishment, when the Body pines away.

Attenuating Medicaments, Are such as make thick humors thin.

Axiom, or *Theoreme*, An acknowledged, undoubted Truth.

Adjacent, Lying near, bordering upon.

Aromatized, Spiced, perfumed.

Anus, The Fundament.

Astringe, To bind.

Atomes, Small Meats hardly visible, and that cannot admit of any division.

Adverse, Contrary to, of a contrary Nature.

Augment, Is the time of a Disease, while it grows still more vehement, until it comes to its height, which is called the state of the disease, and then the Argument ceases, because the Disease is now at a stand, and encreaseth no more.

Alteratives, Are such Medicines as only change the qualities of the Body and its Humors, by heating cooling, moistening, drying, &c. they are opposed to such as do cause Vomiting, Purgings, Sweating, Transpiration, &c.

Adjuncts,

Adjuncts of a Disease, are qualities, dispositions, Symptoms annexed thereunto.

Aliments, are what ever is taken into the Body to nourish the same, as all kind of Meat and Drink.

Adjuvant Causes, are such as serve and assist the principal Cause; so is the Taylors Boy an adjuvant Cause assistant to his Master, the principal Cause of a Garment. So in Diseases, whatever assists the Primary Cause, is termed an Adjuvant Cause.

Alexipharmical things, are such as resist Plague, Poyson, and all venomous Diseases.

B

B *Alneum Mariae*, the manner of stilling or digesting, when the Glas containing the Ingredient stands in a Vessel of water with Fire made under it.

Bolus, A Morfel, a Medicine to be taken from a Knifes point.

Bellilucanae Therma, hot Baths in France, so called from the place where they are.

Breathing of a Vein, Blood-letting, properly if but little Blood be taken away.

Bronchia, The hollow grisly Pipes that spread themselves through the Body of the Lungs, being Branches of the Wezand or Wind-pipe.

C

C *Aruncle*, a little bit of Flesh that grows and sticks out on any part of the Body.

Catarrh, a Defluction or Distillation of humors from the Brain into any part of the Body, especially the Lungs, causing Coughs.

Condense, to make thick.

Contention, Digestion in the Stomach.

Cataphora, A deep sleep.

Cupping-glass, Is that which Physicians use to draw out blood with Scarrifying of the Skin, Glasses fastened with lighted Tow or Flax.

Catalepsis, Congelation or stiffness of the Body.

Causticks, Are Medicines which burn the Skin and Flesh to make Issues, &c.

Coronal Suture, the Seam which runs through the Crown of the Head, where the two sides of the Skull close.

Crude, Raw, undigested; so Meat not well boyled or roasted is Crude, and Blood and other Humors not well digested by the Stomach, Liver, &c. are called Crude.

Conjunctiva, a Coat of the Eye, so called because it sticks fast unto the Eye, and keeps it in its place.

Actual Caustery, is burning with a red hot Iron.

Congelation, Freezing together, stiffness with Cold.

Constipation, Stopping up.

Cholick, Pain and griping of the Gut Colon; and because the pain proceeding from the Stone,

is very like thereunto, it is called the Stone-Cholick.

Cerates, Medicines made of Wax and other Materials, stiffer than an Oyntment, and softer than a Plaster, to be applid to divers parts.

Cephalick, Capital Opiate, Head Electuary.

Cephalick or Pills, Head-Pills.

Cephalick Plaster, Head-Plaster.

Collyrium, An Eye-salve.

Convulsion, A drawing together, a shrinking together.

Cornea, A Coat of the Eye like the Horn of a Lanthorn. See *Veslingus* in English.

Chirurgion, Surgeon.

Circumvolution, Turning round like a wheel or whirl-wind.

Compression, Thrusting or squeezing together.

Contusion, Bruising, a Bruise.

Cold seeds, See the English Dispensatory.

Compress, Thrust together, squeeze.

Condense, Thicken; *Condensing*, Thickening; a *Condensation*, a Thickening.

Coarctation, A straitening, thrulling together.

Contraction, drawing together, shrinking up, &c.

Contracted, Drawn together.

Confirmed, A Disease is said to be confirmed when it is perfect, settled, and hath taken root.

Couched with a Needle, that is, taken away with a Needle, or pressed down with a Needle.

Centre, is properly the middle point within a Circle, from whence all Lines drawn to the Circumference are equal; it is taken figuratively for the middle of any thing.

Continuity, The oneness, the joyning together without interruption.

Compact, Firmly united, well thrust and crowded together. So Gold, Lead, and other Metals are said to be compact, compared to Cork, Spunge and light wood, which are not compact, but hollow and porous.

Concocted, An Humor is said to be concocted, when it is either turned into good Blood, as sweet Flegm is wont to be, or when it is separated from the Mass of Blood, and made fit for expulsion.

Concoction, A boyling, or boyling together: when the meat in the Stomach is changed into a substance like Almond Cream; that change is called Concoction.

Cataplasm, a Pultis.

Cavity, Hollowness.

Crisis, By bleeding at the Nose or by Vomiting page 57. that is, a breaking away of the disease by Natures Conquest of the Cause, which she drives forth by the Nose or Mouth.

Crystalline Humor, A part of the Eye which resembles a little Cake of Crystal; if you open a Calves Eye carefully, you may take it out whole.

Conus, Is a Geometrical Figure, representing a Sugar-loaf, or an Extinguisher, which Philosophers

losophers make use of when they teach how the Eye perceives its Object.

Connatural, which is bred with a Man; as he that is born with one Eye, or but two Fingers: such a Disease is termed *Connatural*.

Convex, bunching out like the back-side of a Buckler or Platter.

Conjunct cause of a Disease, is the immediate Cause; so Flegm stopping the Optick Nerves, is the *Conjunct* cause of Blindness; whereas taking of cold, swimming in cold water, eating Flegmatick meats, sleeping after Dinner, were the remote, or far distant Causes, &c.

Constriction, a drawing together, a straitening.

Congestion, a gathering together, or heaping up.

Cumulation, the same with *Congestion*. These words are opposed to defluxion. When a part is diseased by an humor sent from another part, it is termed *Defluxion*; when the Humor is first gathered in the part it self, by reason of its own proper weakness, it is termed *Congestion* or *Cumulation*.

Conjoyned Matter, see *Conjoyned Cause*.

Corroding, biting, gnawing, eating.

Consolidation, closing up of a Sore or Wound, &c.

Carus, foulness, rottenness, corruption of a Bone.

Cicatrize, to bring to a Scar, to close up a wound or sore.

Commissura, the mold of the Head, where the parts of the Skull are united.

Cavous, hollow.

Critical Evacuations by bleeding, stool, &c. are such as Nature provokes to drive out her vanquish'd Enemy; and are means and tokens of Recovery. Symptomatical Evacuations are such as proceed from the vehemency of the Disease, before Nature hath mastered the offending humor, and they prove bad tokens.

Calcine, to burn Ashes in a Crucible, &c.

Corrode, eat, fret; *Corroding*, eating, fretting.

Cronical, long lasting.

Cacochymical, abounding with evil humors.

Critical day, See day of Judgment.

Corrosion, a fretting, eating asunder.

Conjugation, a pair of Nerves is so called.

Cardialgia, Heat-burning.

Crudities, Rawness, indigestion.

Chylus, a Liquor like a Posset, into which all meats are changed in the Stomach, if the digestion be good.

Cydoniatum, Conserve of Quinces, or Marmalade.

Cardiognos, Heart-burning.

Carminating Medicines, are such as do break Wind.

Constringe, draw together.

Carminative, expelling Wind.

Chalibeat Vinegar, and *Chalibeat Water*, are such as have Steel quenched in them.

Carabe, Amber

Cronical Diseases, such as usually last very long, as Quartan Agues, Stone, Droplic, &c.

Crystal of Tartar, Cream of Tartar.

Consistence, Body, or Substance.

Catheter, an hollow Silver Instrument to thrust into the Bladder when the Urine is stoppt by a stone, to thrust back the stone, and let out the Urine.

Complication of Diseases, when divers Diseases are in the Body at the same time, especially if they depend one upon another.

Coalition, healing up, growing together of a Wound or Ulcer, or any part that ought to be open, as of the Privy in some Girl.

Coincide, is to happen together at one and the same time.

Cachectical Persons, are such as have their whole Bodies blown up with a soft and moist swelling, with the colour of the Face white or lead coloured. Also their Legs especially swell, and their Face is bloated.

Co-indicants, are divers things in a Disease or Patient, which plead for one and the same Remedies. So in a putrid Feaver, the person being full bodied, and the season warm, also the person lusty and young: the Feaver, the fulness of blood in the Patient, his Ague & strength, and Season of the year, are *Co-indicants* that he must be let Blood.

Contra-indicants, are divers considerations that dissuade a Remedy: As when in a putrid Feaver, old Age, Winter-Season, Weakness, are *Contra-dicants* that dissuade from Blood-letting, which the Feaver simply considered doth indicate or perswade and hint out.

Codion of Humors, is their being separated from the Mass of good Blood, and fitted for expulsion: as when thin Humors are moderately thickened, and tough clammy humors are cut and divided. This codion of humors is known by the Urine, when it hath a light, even and smooth setting, &c.

Causa sine qua non, the Cause without which a thing cannot be, though it be not the principal Cause thereof: So a Taylors Shop-board is a *Causa sine qua non*, without which a Garment cannot be made; though himself and the stuff, the shape and the end be principal Causes.

Commemorative, bringing to remembrance what is past.

Cicatrize, is to bring unto a Scar, which is done when Wounds and Ulcers are healed up.

Contumacy, stubbornness, rebellion.

D

Diureticks, Provokers of Urine.

Diagnosis, the knowledge of a Disease.

Distillation, a flowing down of thin humors from the Brain, into several parts.

Decoction,

Decoction, the Liquor wherein things are boiled, the Broth of Herbs, and other Medicaments.

Diagnosticks; the Signs to know what Disease a Patient hath.

Defluxion, the same with Distillation; also a running together of humours into any part, causing pain or swelling, &c.

Delirium, Dotage, raving, talking idly in time of sickness especially.

Diarrhea, a simple looseness without Inflammation of the Guts, any extream pain, or voiding of Blood.

Diaphanicon, see the *London Dispensatory* in English.

Diacatholicon, **Diacarthammum**, see the Dispensatory.

Diet, this signifies in many places a Diet-drink.

Diminished, Lessened.

Diminution, Lessening.

Discuss, dispel invisibly; as a Plaister that makes a swelling go away without breaking, is said to discuss the same, because the matter of the swelling is not seen to come away, but is turned into steams and vapours, and partly drinks up the substance of the Plaister, and so vanisheth invisibly.

Declination of a Disease, is the breaking of the Disease, when it begins to tend to health, which is known by the Symptoms growing more gentle.

Diverting Medicines, which turn aside the humor causing the Disease, so that it flows not into the part offended.

Dislocation, putting out of its place.

Derived, turned away from.

Diffuse, Spread abroad.

Diffipated, Scattered abroad.

Demonstrated, clearly proved from undeniable Arguments.

Depravations, marrings, spoylings, hurtings.

Depressed, made flat or hollow, dented in.

Distemper, any excess of the four first qualities, Heat, Cold, Moisture, Dryness. There are reckoned four simple or single distempers, viz. a Hot, a Cold, a Moist, a Dry, and four compound, viz. Hot and Moist, Hot and Dry, Cold and Moist, Cold and Dry.

Dilated, widened.

Dilation, widening.

Debility, weakness.

Distortion, Wriithing, wresting, crooking.

Dissepating, Spread abroad, driving away.

Derivations, Drawing an offensive Humour from the part diseased, to some other part near it.

Digestives, Medicines which prepare evil Humors for to be driven out by Nature.

Dissolved, Melted, consumed away. It is used of swellings that are brought down by Oynments or Plaisters, and in other cases when

the humor causing the Disease is invisibly driven away.

The **Drum** mentioned in page 96. is a pretty little hollow bone in the Ear covered with a thin Skin like a Drum, which being beaten upon by another little bone like a Mallet, doth cause sounds to be heard in the Ear. See *Veslingus* his Anatomy in English.

Diapedesis, is an issuing of the blood through the Pores of the Veins.

The **Day of Judgment** or **Critical Day**, is that day in Feavers especially wherein it appears, on which side sentence is given, whether on the Plaintiffs, viz. the Disease; or on Natures, the Defendant; so that by some Evacuation, or swelling, or other great mutation to the better or worse, it appears whether the Patient is like to recover or not.

Distension, Stretching.

Depraved, Marred, spoyled.

Dilation, Widening, opening.

Diaphragma, the Midriff.

Dyspnea, Shortness of Breath.

Dysentery, A Bloody-Flux.

Diagrydiates, Medicines that have Scammony or Diagrydium in them.

Dissolution of Natural heat, a decay of Natural Heat.

Diaphoretick Sweats, which are caused by Nature oppressed with a malignant humour, and forcibly driving the same out by Sweat.

Dung-gate, the Arse-hole.

Distillations by descent, are when the Liquor which comes from the Materials stilled doth not rise up above the said Materials, as in ordinary distillation, but falls down under the Materials stilled, which are therefore laid upon a Grate, that the bottom of the Vessel may be empty and free to receive the distilled Liquor.

E

Excrement, the Dregs of Digestion in the Body voided by Dung, Urine and Sweat.

Evacuation, an emptying or voiding forth, purging.

Epispastick, a Plaister to draw a Blister, called also a Vescatory, or any strong drawing Plaister.

Errhines, Medicinal Liquors to be snuff up the Nostrils to purge the Brain.

Empyema, **Empyems**, a corrupt matter between the breast and the lungs following a Pleurisie.

Erysipelas, **Oedematofum**, a certain swelling arising from Choler and Flegm.

Elephantiasis, a Leprous Disease which makes the Patients Skin like the Hide of an Elephant.

Electuary. See the *London Dispensatory*.

Expulsion, Driving forth, as of Excrements, Dung, Urine, Sweat, &c.

Expell

Expell, To drive forth.

Eruption, Breaking forth.

Extinguished, Quenched, put out.

Emunctuaries, or **Emunctories**, certain wayes and passages that Nature finds to drive ill humors into, from the principal parts, as certain Kernels behind the Ears, and in the Groins, under the Arm-pits, &c. where risings happen in time of Pestilence, &c.

Essentially springing P. 11. that is, primarily and principally, not accidentally or occasionally.

Ebullition, Boiling and working of the Blood in the veins, like new Wine in a Cask.

Extension, Stretching out.

Extenuation, Leanness, Consumption of flesh.

Extenuating, Making thin.

Expulsive faculty, the power of our body which drives forth Dung, Urine, Sweat, Vapors &c. every part partakes of this Ability or Faculty.

Eminent, Near at hand approaching.

Erysipelas. A swelling caused by Cholor. **Erysipelas Phlegmonodes**, or **Phlegmon Erysipelatodes**, is swelling caused by Inflammation of Cholor and Blood.

Emulsions, Almond Milks, and Milks made of cool Seeds, &c.

Electuaries, Medicines made up of Conserve of Flowers or Herbs, to which is added some sweet Spicy Powder for the most part, and so with syrup it is made up in the form of Mithridate or Treacle.

Epithemes, are Medicines applied in Bags, commonly upon the Heart or Stomach, Liver or Spleen, &c. Certain convenient Powders being put in a Bag, or between two cloths, and so wet in Wine, or other convenient Liquor, are laid upon the stomach, Heart, &c.

Essential to the Disease, that is, of the very being or substance, so that without that, the Disease could not be. So Heat is Essential to a Fever.

Excrements, Dregs and refuse of our meat and drink after Concoction, voided by Dung, Urine, Sweat, and invisibly through the Pores.

Excrementitious, Of or belonging to Excrements, impure, preternatural Humours are so called.

Extenuate, Make thin.

Expressed, Squeezed out.

Epidemical, Common to a whole Nation. So the Plague, Small Pox, Loofness, Sweating-sickness, &c. when they are the all over a Nation or Country at one time, they are called Epidemical Diseases.

Elixir Proprietatis, A Medicine invented by Paracelsus. Take of the best Aloes, Myrrh and Saffron, of each half an ounce: Powder them, and put them into a Glass. Then take Muscadine made fast with Oyl of Sulphur, & pour upon the powder till the Liquor stand

four fingers above the powder: Let them stand & digest in a warm place. Then pour off the Liquor, & put on more, till all the Colour and vertue be drawn out from the Powder. At last still the settlings with a gentle fire, and pour that which comes away to the former Liquor, & let all stand & digest a moneth in a warm place close stopped. The name signifies such a Quintessence as hath a special propriety of agreement with mans Nature, whereby it comforts and restores the same in all kind of weaknes.

Emollient, Medicines that soften.

Eroded, Eaten asunder, eaten up.

Extraction, Pulling out.

Exquisite, Perfect, in an high degree.

Escharoticks. See **Causticks potential**.

Embrochated, Moistened, bedewed, bathed.

Erosion, Fretting, eating.

Eclegma. See **Lambitive**.

Extream parts, the Arms and Legs.

Emplastick diet, consists of such meats as are of clammy substance, viz. Calves head and feet, Sheeps-trotters, all Feet of Beasts, Tripes, Jellyes, &c.

Excreta and **Retenta**, Things voided out of the body, things retained, or kept in.

Eradicate, Pluck up by the Roots.

Exasperated, Pained, vexed, molested.

Equivocal, Signs of a Disease, are such as are common to it and other Diseases.

The **Efficient Cause**, Is the working or making Cause; so a Taylor is the Efficient of a Garment; the Material Cause is the Stuff a thing is made of, which the Efficient works upon; so the Cloth or Silk is the Material Cause of the Garment. The Formal Cause, the shape that makes it a Coat or Cloak, as Doublet; the Final Cause is the end why it was made, viz. to hide nakedness, keep off Sun and Cold, and to adorn the Body.

Emulgent Veins, Which bring the wheyish Excrement of the Blood into the Kidneys where it becomes Urine, and is passed by the Ureters into the Piss-bladder.

Evaporation, A steaming out of Vapors.

Egress, Coming forth.

Evaporated, steamed away, as water that spends away in boiling.

Evacuators, Medicines which empty out evil Humors, either by Vomit, Purges, &c.

Exhalations, Vapors drawn up by the Sun out of the Earth and Waters.

Exhumated, Fanned, purged as Corn by fanning. So Exercise is said to ventilate or fan the body, because the motion opens the Pores, and drives many vapors out.

Eneorema, That which hangs like a cloud in Urines, especially when the Disease is breaking away.

Emollient Decoctions, A softening moistening Decoction.

Decoction, made for Clysters to soften & moisten the hardened Excrements of the Guts.

An *Eschara*, or *Eschar*, is the Core that falls off from a part that hath had a Caustick applied thereto.

F

Fumigations, Perfumes and other things burnt to qualifie the Air in a sick Mans Chamber.

Fraçture, Breaking, as fracture of the Skull or Arm, &c.

Fomentation, When linnen Cloaths or Spunges are dipped in some Liquor, and applied to the diseased part, and after renewed.

Functions of the Brain, the Abilities of the Brain, to Hear, See, Imagine, Understand, Remember, &c.

Frictions, Rubbings.

Furor Uterinus, Womb-madness; when Women are mad by reason of a disorder in the Womb. See the Chapter of that Disease.

A *Flux of Humors*, Flowing of Humors.

Febris Catarrhalis, a Feaver caused by Rheum falling from the head.

Fabrick, Frame, making up, composition.

Frontal Vein, Forehead Vein.

Fortified, Strengthened.

Fistula, An hollow, deep, but narrow Ulcer that will not be closed up.

A pair of *Forceps*, a small Instrument like a pair of Tongs to draw forth any thing out of the Bars, &c.

Fluid, Apt to run and flow like Water and other Liquor.

Filtration, straining through a brown Paper, or by means of a piece of cloth hanging out of one Vessel into another.

Filter, To strain as aforesaid.

Fermentation, The working of Humors as new drink works in the Barrel.

A *Feaver Symptomatical*, is a Feaver caused by some other foregoing Disease; in respect of which Disease the Feaver is but a Symptom or Accident.

A *Flatulent and Pituitous Cholick*, is a Cholick caused by wind and flegm.

Formicans Pulsus, A weak, feeble, quick Pulse that feels under the fingers like creeping Pismires, from whence it is named.

Form, see Efficient Cause.

Fluxive, Apt to flow and run like Water and other Liquors.

Friable, Is crumbly, short, like costly Cake-bread, Pye-crust, Puff-paste, &c. So Fishes have a short crumbly substance, not clammy or slimy, such as Soals, Smelts, Trouts are said to be fryable in comparison of Eels, Carps, Tenches, &c.

G

Gum Animi, Indian Amber.

Gargarisms, That is, Medicines to Gar-

gle in the Throat to wash sore Throats.

De Guttera, A powder used in the Falling-tickness & Convulsions of Children by the French. It is described page 32. at the bottom.

Going about, By fits.

Generating, Breeding, begetting.

Glandules, Kernels, such as are about the Throat, & are called the Almonds of the Ears, and such as the Sweet-bread, &c.

Gate-Vein, Vena Porta. See *Veslingus* Anatomy in English.

Generous Wine, Strong Wine, as rich Canary, Muscadine, &c.

Glutinations, Clamminess like Gum about the corners of the Eyes.

Glutinators, Things which glue and close up broken Veins, &c.

Glutinous, Clammy like Glue.

A *Gangrene*, is a corruption of a part tending to the utter dreading thereof.

H

Hypochondria, The parts beneath the Ribs.

Hemiplegia, The Palsie possessing one side.

Hydreleum, A Bath and Oyntment; that is, of water and Oyl beaten together.

Hippocras Bag, A Bag of Wool shaped like an Extinguisher, through which Hippocras and divers Medicines are strained.

Hereditary, From Father or Mother, to Son or Daughter.

Hydromel, Honey and Water, Mead, Metheglin.

Hemorrhoids, Veins of the Fundament, to which Leeches are applied.

Head-Herbs, Rosemary, Betony, Sage, Lavender, sweet Marjerom, Hyssop, Balm, Cowslips, Roses, Violets, Lettuce, Borrage, Bugloss, &c.

Habit of Body, Is the whole bulk and substance thereof.

Humidity, Moisture.

Holy Fire, A red Inflammation, St. *Anthonies* Fire, the Rose.

Hemorrhagies, Breaking forth of Blood from any part of the Body.

Hysterical Fits, Fits of the Mother, Womb-sickness.

Hermetical Physitians and *Hermets*, Chymists, such as trade with Furnaces, Pots and Glasses, to draw Spirits, Oyls, Waters; to make Salts, Quintessences, &c. called so from *Hermes Trismegistus*, an old Egyptian Philosopher who is thought to have been a Chymist.

Horrors, Shiverings.

Inse, That is, sleep.

Inflammation, Great Heat.

Indication, Is an hinting to the Physitian what he is to do. So extream heat is said to give indication

dication of cooling; extream fulness of blood gives indication of Blood-letting, want of a Womans Courses gives indication of Blood-letting.

Jugular Veins, That is, the Throat Veins. See *Veslingus Anatomy in English*.

Insensible Passages, Which cannot be seen nor felt by reason of their smallness.

Influence, Flowing in.

Inherent, Sticking fast within, seated and abiding within.

Inordinate, Disorderly, unnatural, and unfitting.

Internal and External Senses, The Internal are, Common Sense, Imagination, Understanding, Memory: The External are, Seeing, Hearing, Smelling, Tasting, Feeling.

Intercepted, Stopped in the middle way.

Internally and Externally, Inwardly and outwardly.

Juleps, Pleasant Drinks, made of distilled Waters, or the broth of Barley and other convenient things, and sweetned with Syrups or Sugar; given chiefly in Feavers to cool and quench Thirst.

Infusion, a strained Liquor wherein Medicaments have been steeped either hot or cold.

Incrassate, Thicken.

Incrassating, Thickening.

Insensible, Not to be perceived by the outward Senses of Seeing, Hearing, Smelling, &c.

Illumination, Enlightening.

Influx, Flowing into.

Inversion, Turning the inside out.

Intermission, Ceasing, leaving off.

Inveterate, Old, of long continuance, rooted.

Inclination, That is, by holding the Vessel on the one side, and so powring the clear from the settlings: This is called to clarify by Inclination, in opposition to clarifying with the white of an Egg by boyling or anyother way.

The *Iris*, A party-collour'd round Circle in the sight of the Eye like a Rainbow, from whence it hath its name.

Incarnate, To breed flesh.

Irritation, Provocation, stirring up.

Involuntary Tears, Which are not shed by force of sorrow working upon the mind, but by force of a bodily Disease.

The day of *Indication*, Is that day in a Feaver on which may be collected what will betide upon the following Critical day. So the fourth day doth hint what is like to happen on the seventh, and the eleventh hints what is like to happen upon the fourteenth, and the seventeenth what will happen upon the twenty one, and the twenty four what will betide upon the twenty eight. Therefore the fourth, eleventh, seventeenth, twenty four, are called dayes of Indication, or telling and declaring.

Judged. See *Day of Judgment*.

Infirm, Weak.

Insipid, Tasteless.

Incising Medicaments, Are such as cut and divide tough flegm and other clammy humors whereby they become fit for expulsion such is Oxymel, &c.

Intestines, The Guts.

Intension and Remission, Increase and decrease, growing stronger or weaker.

Injection, Is a Medicinal Liquor cast with a fitting Instrument into the Womb Bladder, or Fundament, when there is soreness of the morrhoids, &c.

Insered, Fastened or planted into.

Infusate Juice, Is Juice of some Herb boyled till it be thick as Honey.

Illustrated, Made clear and manifest.

Invasions of the Gout, fits of the Gout, or of Agues, may be called *Invasions* of the said Diseases.

Intense, Vehement, strong.

Indicate, Declare, point out.

Impacted, Wedged in, thrust far in.

Irrigations, Moistnings, sprinklings, waterings.

Intervention, Coming between, happening together with.

Intermediate, Coming between.

Intermitting Pulse, Is that which holds up a while, and then beats again, and then stops, and then beats again, which is a sign of great sickness.

Incohibility, An unaptness to be corrected or digested, or an impossibility thereof.

L

Lentive, A gentle, refreshing cordial Medicine.

Ligatures, Or strings wherewith the Joynts of Bones and the Gristles are compact and bound together.

Lozenges, The same with Tablets, being the form of a Medicine made up.

Luxation, Is when one Joynt is Loosened from another.

Liniment, Oyntment.

Ligatures, Binding of several parts to draw the Blood and Humors from the part diseased to the parts bound by reason of the pain of binding which must be very hard and straight.

Loosness of continuitie, Separating and dividing of things closed and united. So a wound is termed a loosening of Continuity, because it separates those parts of the Skin and Flesh which were formerly united together.

Laxe, Loose, slack as an unbended Bow-string.

Livid, Black and blew.

A *Lambitive* or *Loboch*, Is a Medicine to be lickt from a Liquoris-slick, and to be swallowed softly down, being chiefly ordained for the Lungs.

Iron-Water, Water wherein Iron hath been quenched, Smiths forge-water.

Laxative, Which makes the Belly loose.
Livid, Black and blew, Lead-coloured.

M

M*eninger*, or films of the Brain, coats that cover the Brain.

Masticatories. That is, Medicines to be chewed to bring away Rheum.

Meseraick Veins. Little Veins that are thought to carry Chyle from the Stomach to the Liver. See *Veslingus Anat.* in English.

Malignity, Venemous or poysonful quality of certain humors and diseases which make them very dangerous, and for the most part deadly.

Matter, or *Quittor*, Snotty kind of filth which comes out of Imposthumes when they break, and out of Ulcers when they are in a good way of Cure.

Magistral Syrup, Is such an one as is invented by a Physitian for his Patient, in opposition to those Syrups commonly kept in Shops.

Matrix, Womb.

Membrana, Skin or coat of the Arteries, Veins, &c. *Membranes*, skins or coats.

Mortification, A deadening of any part of the body.

Malign, Venemous, poysonful. See *Malignity*.

Mother, The Womb in Women is so called.

Mitigation, Abatement, lessening, growing mild.

The Medium, is that through which we see, as principally the Air, which we look through upon objects; also the Water and Glass, Horn, or what ever is clear and may be seen through, may be termed a medium of sight.

Mammillary passages, or *productions*, certain little knobby bunchings out of the Nerves, which serve for smelling, resembling Tears, called therefore Teat-like productions. See the English *Anatomy*.

Malax, Soften. To *Malax* a lump of Pilstuff, is to soften it, that it may work up into Pills the better.

Mercurial Purges, Purges made of Quick-silver, Chymically prepared, such as *Mercurius dulcis*, some kind of Precipitate, *Mercurius vita*, &c.

Macerate, Steep.

Mesenterie, The Skin which knits the Guts together, and runs all along among them, embosed with Fat. See *Veslingus* his *Anatomy* in English.

Membranous, Of the nature of Skin or Parchment.

Morbifical, or *Morbifick matter*, is that which is the principal cause of any disease.

Minorative purgation, Is gentle purgation, such as takes away only a part of the matter of a Disease: it is opposed to *Eradicative purgation*, which is strong, and pulls the whole matter offending up by the Roots as it were.

N

N*utrition*, Nourishment.

Narcotick Medicines, stupifying Medicines, that dull the sense of feeling, and cause profound sleep.

Nitre, Salt Peter, as some hold; but *Matthiolus* conceives the true *Nitre* is rarely found in these dayes.

Natural Functions, Actions of the Stomach, Liver, Spleen, Gall, Kidneys, in concocting the meat, making blood, and separating and expelling the Excrements.

Nauseousness, sickness of the Stomach enclining to vomit.

Nidorous, Smelling of burnt fat, or scorched Roast-meat, or fryed Oyl.

Noxious, Hurtful.

Nausiosis of the Veins, is when the Veins are sick of bad blood, and do as it were spew it out into the habit of the body, from whence comes Scurvy-spots, Morpew, Scabs, &c.

Neotericks, are late Writers in Physick, or any other Art, so called in opposition to the Antient Authors.

O

O*rgans*, Peculiar parts of the Body fitted for some notable service of the Spirit, such as the Eye to see, the Ear to hear, the Nose to smell, the Skin to feel, the Lungs to breath, Stomach to digest.

Os Sacrum, The great bone whereon the Ridge-bone resteth.

Ophistotones, A Convulsion so named when the Body is drawn backwards.

Oval form, That is, shape of an Egg.

Original, Beginning, foundation.

Oedema, A swelling caused by flegm, which is soft and whitish, and has little heat or pain with it.

Obstruction, Stopping.

Opiate, Signifies an Electuary, properly it is put for Venice Treacle, Mithridate, Diacordium, &c. which have Opium in them: from whence the name is derived. But secondarily, it signifies any Electuary or Antidote made up in such a body as Treacle, &c. though it have no Opiate in it.

Orifice, The hole that is made by a Chyrurgeon when he lets Blood. Also the mouth or passage in the Womb or Stomach, &c.

Opticks, A part of Natural Philosophy (though falsely reckoned for a branch of the Mathematicks) opening all the Mysteries of sight, and the reasons of the Deception, or mistakes thereof, & teaching to make augmenting Glasses, Multiplying Glasses, Perspective Glasses, Burning-Glasses, &c.

Oblique, Slanting, athwart, crooked.

Obnoxious, Liable, or subject unto.

Ophthalmia.

Ophthalmia, An Inflammation of the Eyes, causing soreness and redness.

Osculum, The bony Sieve, a bone full of small holes, like a Sieve or Colander, placed above the Nose, through which snout and mucus is drained from the Brain.

Oculus, Hidden, unknown.

Oxyrate, Vinegar and water mingled together.

Organical Disease, See *Similar Diseases*.

The *Systole* or *Diastole* of the Pulse; are the double motion thereof. For when the Artery is extended by the blood issuing out of the Heart, and smites the finger of him that feels the Pulse; that motion is called *Diastole*, or a widening & stretching of the Arterie: but when the Artery falls, contracts it self, and sinks from under a mans finger, that motion is called *Systole*, a contraction.

Oxyrrhodine, Vinegar of Roses, and Medicines made principally thereof.

P

Prognosis, The foreknowledge of Diseases.

Plethora, A too great fulness of good blood in the body.

Paralisis, The Palsie.

Paraplegia, Paralisis, Palsie.

Peripneumonia, An Inflammation of the Lungs or Lights.

Pericranium, The Skin which compasseth the Skull.

A *Pugil* of Herbs, viz. as much as is taken up between the Thumb and three Fingers.

Physical Regimen, is the right ordering of a Patient having taken a Purge, or other strong Medicament. As to keep the Patient warm, to give posset or thin broth after every stool; not suffer him to read, or her to sew or hold down the head, or to be sad, or to sleep, especially after Vomit, &c.

Pbrensie, Raging, madness joyned with a Fever. See Chap. 11. Book 1.

Prognostick, Foretelling. A *Prognostick sign*, is a sign foretelling what will become of the Disease and Patient.

Privation, Loss.

Plethorick, Full of blood, too full of blood.

Pores, Little holes in the Skin, through which vapors and sweat came out. Sometimes they are visible upon the Arm or Leg, being swelled and closed with cold; resembling a Goose skin for roughness.

Preternaturally, Otherwise than the Course of Nature requires.

Perspicuous, Clear, that may be seen through as Glass, fair water, &c.

Peritoneum, The inner coat of the Belly which covers the Guts. See the English *Anatomy*.

Poplar Ointment, in the shops called *Populeon*. See the English *Dispensatory*.

Potential coldness, That is coldness in operation, though not to the feeling. So a draught of Whey in which cooled Habs hath been boyled, being drunk down warm from the fire; it is said to be actually hot, because it is so to the hand and palate; but Potentially cold, because it afterward cools the Stomach, Liver, &c.

Pulsation, Beating of the Arteries in any part of the Body.

Precede, Go before.

Preparing of humors, Is the qualifying of them, so as that they may be fit for expression, which preparation consists in separating them from the mass of good Blood, in making them thick, if they be too thin and sharp, in cutting them and making them thin, if they be too thick and clammy.

Phlebotomy, Blood-letting.

Preternatural, Beside the intent or custome of Nature, vide *Preternaturally*.

Propriety, A pain by propriety, is when the cause of the pain is in the part pained; so when the Head-ach comes from the Humours in the Head, it is called a pain by propriety; when it comes from Humors in the Stomach, or any other part that sends up Vapours, it is called Head-ach by consent. And the like may be said of other symptoms or accidents.

Pyramis, Is a Geometrical Figure broad and angular at the bottom, and growing less & less towards the top till it come to a point. The Sepulchers of the Egyptian Kings were made in this form, and therefore called *Pyramides*. Naturalists do make use of this Figure, to shew how the Eye receives the representations of visible objects.

Pupil of the Eye, Is the middlemost round circle which we commonly call *the sight of the Eye*, and which in Cats is seen to widen and contract it self.

Pulse, Beans, Pease, Hastivers, French-pease, &c. called so, because they are gathered by pulling, and not by mowing down, as corn.

Probable, Likely, possible.

Profound, Deep.

Producing, Breeding, causing.

Peccant Humor, The Humor offending, causing the Disease.

A *Phlegmon*, Is an Inflammation or swelling caused by blood. If no other Humor be adjoyned, it is a true Phlegmon. If Choler be joyned, it is called a *Phlegmon Erysipelous*; if Flegm, *adematous*; if Melancholy, *Schirrhous*.

Paroxysme, The fit of an Ague, of the Mother, or any Disease that comes by fits.

Perforated, Bored through.

Putrid, Rotten, filthy, stinking.

Pupula, A pustule, push, or wheal.

Ponderous, Weighty.

Peristalsick,

Peristaltick motion of the Guts, Is whereby the Guts do contract and purse themselves together above the Excrements, and so squeeze them out.

Pomum curtispendulum, An Apple so called.

Pubes, The hairy Hillock above the Privities in Men and Women. The word signifies Ripeness, because that hair being grown out, testifies the parties to be fit to ingender.

Perineum, The space which runs like a ridge between the privities and fundament in Men and Women.

Preposterous, unnatural, undue, unfitting.

Perturbation of the Eyes, A troubled, drowsie, frightened look of the Eyes.

Procatartick Causes, Primary, first working & occasional Causes. So in a Feaver, the next immediate Cause is putrid Cholera, &c. but the first working and occasional causes, were the Patients taking cold by swimming in the cold water, whereby the pores became shut, and the Matter of the disease was retained in the Body. So the Procatartick Cause of Worms in Children is their greedy eating of Fruit; but the immediate Cause is putrid Humors occasioned by those Fruits, out of which humors the worms breed.

Precipitated, Thrown head-long, forcibly cast down.

Palliative Cure, Is when a Disease is not taken away, but only mitigated and made more mild, so that the Patient may have as much ease as possible. Or if the Disease deform the Body, a palliative Cure does hide as much as may be that deformity. So an Eye being thrust out, cannot be properly cured; but it may admit of a palliative Cure, in asswaging the pain and other Symptoms, and by putting into the place thereof a Glass or other Artificial Eye.

Potent, Powerful.

Perspirable, The Body is said to be Perspirable, when the invisible pores or holes in the Skin are kept open, so that the Vapors arising from evil humors may freely breath out. See Transpiration.

Pernicious, Deadly, causing death and destruction.

Protraction, Is a lengthening out of a Disease, and making the same to last long.

Pharmaceutick Remedies, Whatsoever kind of Medicines are made by the Apothecary.

Preposterous, Disorderly, undue, unfit, the Cart before the Horse.

Quittor, see Matter.

R

Repletion, over-much fulness of Blood or humors.

Resolution, Weakening or dissolving the strength of a part, as when it is Palsied, &c.

Revulsion, Drawing back of Blood or Humours from the part affected.

Repelling, Medicines which draw back the Humour from the part affected; *Repellers*, the same.

Relaxing, Slacking, as the string of a Bow when the Bow is unbent, is said to be relaxed or slackened.

To Revel, To draw back Humors from the part diseased.

Remitted, Lessened, abated.

Restriction, Exception, limitation.

Ruption, Breaking, or tearing asunder.

Reliques, Remains of an Humor after solemn purging, bleeding, &c.

Retraction, Drawing back.

Radical moisture, The fundamental Juice of the Body which nourishes and preserves the Natural heat, as the Oyl in a Lamp preserves and feeds the flame.

Revelled, Drawn back; *Revulsives*, Remedies to draw back the Humor from the diseased part.

Repelled, Driven away.

Retentive faculty, the power in our body and its parts to hold fast its nutriment & whatever is agreeable thereunto.

Rough Artery, or *Aspera Arteria*, is the Wind-pipe or Windand, which is rough on the outside with circles and gristly rings.

Reduced, Brought back again.

Refractions, Breaking of the Representations of visible objects, a term used by the Writers of Opticks, or the Art of seeing.

Recruited, Repaired, restored, made up, a Military term.

Resolving Medicaments, Are such as loosen and scatter evil Humors which are gathered and combined together in some diseased parts of the body.

Repercussives, Medicines which drive back the humors from a diseased part.

Relaxation, Looseness.

Refrigerating, Cooling.

Respiration, Breathing.

Reflux, Flowing back again.

Recipient part, is that part which receives the humor offending.

S

Suppository, That which is put into the Fundament to cause solubleness.

Sudorifick, That is, causing sweat.

Subeth, A deep sleep.

Scarrification, Is a cutting of the skin that it may bleed into a Cupping-glass.

Superficies, The outside of any thing.

Stupes, Stoves or Hot-houses to sweat in.

Spiritus acousticos, Is that portion of the spirit which in the Ears discerneth sounds.

Strangulation, Choaking.

Sternon,

Sternon, The Breast-bone. See *Veslingus* Anatomy in English.

Sphincter, Is the Muscle of the Arse.

Stupor, Dulness.

Spasmus, Cramp or Convulsion.

A *Scruple*, Is twenty grains, or the weight of so many Barley-corns.

Sternutatories, Medicines to snuff into the Nose to provoke sneezing.

Stupifying, Taking away the sense of feeling, benumbing.

Stupid, That is, benumbed, besotted, hath no feeling or sense, blockish.

Symptom, Evil dispositions of the Body, which depend upon and accompany a Disease; as Heat, Thirst, Head-ach, want of Sleep, Stomach-sickness, Faintings, Swoonings, &c.

Sympathy, Fellow-feeling, a Disease is said to come by sympathy, when the principal cause is in some other part, with which the part offended hath a fellow-feeling. So pains of the Head caused by evil humors in the Stomach, are said to come by sympathy. And sickness of the Stomach, caused by the Stone in the Kidneys, is a disease of the stomach by sympathy.

Nerves, Sinews, certain strings carrying the faculty of Motion and Sense from the Brain into all parts of the Body. See *Veslingus* Anatomy in English.

Scorbut, The Scurvy.

Steeld, In which steel hath been quenched or infused.

Scorbutick persons, that are troubled with the Scurvy.

Spinal, Of or belonging to the Back-bone.

Serous Matter, Wheyish, like whey.

Sutures, Seams of the Head where the parts of the Skull are joyned together.

Species of the Objects, Representations of things seen. For the visible things themselves do not enter into the Eyes, but certain Images and figures of them.

Scituation, Place or posture.

Species retained in the Mind, The shapes and patterns of things seen or heard, &c.

State of the Disease, Is when it is at the highest, and does neither increase nor decrease.

Saphena, A Vein of the foot which is usually opened in Women. See *Veslingus* Anatomy in English.

Sal prunella, Salt-peter purified with Brimstone, clean white Salt-peter is as good for use, only the Chymists love to mend, *Magnificate*, and many times take great pains to little purpose.

Sphacelus, Deadness of any part, when the flesh and bone are dead; *Sphacelation*, signifies the same.

Superfluous, Over-much, unnecessary, &c.

Speculum Oris, An Instrument wherewith the Mouth and Throat is kept open, that the parts diseased may be seen and dealt with.

Schirrbus, An hard swelling without pain.

Suppurated, an Impothume is said to be suppurated when it gathers matter and enclines to break.

Suppuration, A collection of matter in an Impothume.

Suppression, Stoppage.

Solution of continuitie, A dividing of such parts as were naturally united; so every Wound & Sore is called a *Solution of continuitie*, &c.

Stuphes, Tow or Cotton-wooll.

Sealed Earth, *Terra sigillata*, it is a kind of Medicinal Earth brought out of the Straits, and sealed in little flat cakes to avoid Imposture: the Seal is wont to be the Great Turks Badge, viz. the Half-Moon.

Spur adrap, A Sear-cloth.

Sediment, The setlings and dregs of Urine or any other Liquor.

Suppression, Stopping.

Sincere Excrements, Are such as are pure and unmixed, as Cholera, alone, &c.

Sudorificks, Medicines causing Sweat.

Suffocating, choaking. *Suffocation*, a choaking.

Subject, a Logical term, it signifies any thing that hath somewhat adjoyned & annexed to it. So the body is the subject of sickness & health, of beauty & deformity. The head is the subject of pains, & other parts are the subject of other accidents. The Soul is the subject of Virtues and Vices, of Happiness and Misery, &c.

Suffusion, A shedding abroad of Humours; as when an humor is shed abroad in the Eye, & hinders the sight, it is called a *Suffusion*.

A *Seton* is an hole made in the skin, and a skin of Silk or Yarn, or such like drawn through and kept in, which being removed daily, causes the matter and humor to come away.

Sulphurous and *Bituminous* Baths, that is hot Baths, like those of Bath in Somersetshire, whose heat and vertue springs from a tincture of Brimstone and Bitumen which they bring out of the Earth.

Suppuration, Is when a swelling comes to gather head, breed matter, and is ready to break.

Specifick quality, A peculiar hidden property, not springing from the first qualities.

Similar Diseases, are such as befall the substance of the Body, not considered as formed into any organ or limb or part; and they are all kind of distempers. Organick Diseases are such as are proper to the Organs and Instruments of the Body as such, viz. what ever mar their Fabrick; Common Diseases are such as are liable both to the Simillary and Organick parts, viz. Solution of Unity.

T

Tables, are the same with Lozenges; they are Medicines made up in flat four-sqar'd Cakes with acuted angles.

Torpor, Numbness.

Transpiration

Transpiration, The passage of the vapor through the pores of the skin of the whole body invisibly, only causing a smell according to the Humors, in some more, in some less, in some offensive, in others not so.

Tumor, Swelling.

Tincture, The vertue or strength of any thing drawn forth by steeping the same in spirit of Wine, Vinegar, or any piercing liquor; the said Liquor containing the vertue and oftentimes the colour of that which was steeped in it, is called the Tincture thereof.

Tile-tree, A Linden-tree, there grow two on Newington-green, they bear sweet blossoms.

Trepan, An Instrument made to bore a hole in the Skull.

Turgent, Swelling, working, moving to and fro, spoken of the humors of the body when they are in a combustion and full of motion.

Tacamahacca, A sweet Gum. See the London Dispensatory in English.

Translation, Carrying of an humor from one part to another.

Tunicles, Little coats or skins of which the Eye is partly made up. See the English Anatomy.

Terminated, Ended.

Topal Medicines, Such as are outwardly applied to the part affected, or the part which sends the humor, &c.

Transparentness, Such a clearness as is in a Glass, Horn, the Air, fair Water, or any other thing which we can see through.

Troches or **Trochisks**, Medicines made up in the form of little flat Bowls, whence they have their Name.

Tunica retiformis, The net-like Coat or Tunicle.

Thorax, The Chest.

Treble Quantity, Thrice so much.

Tartarous matter, Congealed hard matter like the hardened Lees of Wine which are called Tartar.

Transpire, Breath through.

V

Verrigo, A swimming in the Head.

Vesicatories, A Medicine applied to the skin to cause a Blister.

Vertebre, The turning bones of the whole back.

Ventricles of the Brain, Certain hollownes of the Brain.

Venenosity, Poysonfulness.

Vapors, Steams ascending into the head like the steams we see mounting from a mels of hot Broth or Meat, &c.

Vital function, faculty of the Heart causing Life, Pulse-beating, and Breathing.

T

FINIS

Visive Nerve, The seeing Nerve. The Sinew wherewith the objects of sight are carried into the Brain, and the Imagination or Common Sence. See *Veslingus* Anatomy.

Vaporous matter, Steaming reaking matter. See Vapors.

Ulcerated, Having an Ulcer or running Sore.

Visor, or **Visive Spirits**, the Spirit wherewith we see.

Universal Evacuation, Is a general purging of the whole body all at once.

Vitrious Humor, A moisture like a Molten-Glass which goes into the making up of the Eye. See *Veslingus* Anatomy in English; and cup up an eye of a Calf, Sheep, &c.

Uvea Tunica, A coat of the Eye resembling the skin of a Grape, from whence it is named. See *Veslingus* Anatomy in English.

Voluntary faculty, that power of our Body which works according as we please, as the power of going, running, speaking, &c. whereas the powers of beating in the Pulse, of digesting in the stomach and Liver, of making blood, flesh, fat, &c. do not work according to our wills. The former we can exercise or suspend & moderate them as we please, but the latter not; which are therefore termed involuntary:

Uvula, or **Columella**, the Palate of the mouth.

A Vehicle, That which serves to carry.

Vermicular, Worm-like. The Pulse is so called when it is weak, and lifts it self unequally, sometimes more, sometimes less; like the creeping of a Caterpillar.

Ureters, Certain long pipes or passages which bring the Urine from the Kidney to the Bladder. See *Veslingus* Anatomy in English.

Viscous, Cleaving and roaping Birdlime.

Vicissitude, The following of one thing upon the neck of another.

Venery, Letchery, the immoderate exercise or doating upon such Acts as tend to Generation.

W

Wild Poppies, Red Poppies, which grow among Corn, called likewise Corn-Rose.

Watry Humor, A certain liquor like water which goes into the composition of the Eye. See *Veslingus* Anatomy in English.

Water-Gate, The Privities in Women.

Z

Zacutus Lusitanus, a Famous Physitian; a Jew that practised at Amsterdam in Holland. He has wrote divers excellent Treatises of Physick suitable to the Principles of Hippocrates and Galen.

A N
ALPHABETICAL TABLE
O F
DISEASES.

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